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<400> 443

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<400> 444

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<400> 445

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<211> 4557
<212> DNA
<213> Saccharomyces cerevisiae

<400> 446

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<213> Saccharomyces cerevisiae

<400> 447

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aggggtgata agatcatcgt tttttcagat aatgtttacg ccttacaaga atatgctttg 1860

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caaaatttcc agtacaatga ccaaatcaat accatatttc tatcaaaagt tggtgatact 1980

tccatcgatt taccagaagc tacctgttta attcaaatat cttcgcacta tgggtctcgt 2040

cgtcaagaag cccaaagatt aggaagaatt ttaagagcta aaagacgtaa tgacgaaggt 2100

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<211> 1359
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gatatgagta acctgcttaa tgttcatcaa aacaacactg atcttcctca taatatcata 240

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cgcaggcgaa gaagagcaac cgtgttgcaa ccagcttccc attctgggag ttgtacagtt 360

tcgagtcaag attcctccag tgtacaaaac aatgggaatt taagcgctcc gttggcgtca 420

aatgacgccg ggaacgctgg tgtaagtaca ccattggtgc attgccacgg agcaatatca 480

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actttgaaat ccacgagttc gacaaactct ccagattaa 1359

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<213> Saccharomyces cerevisiae

<400> 449

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acggaagtgc ggtcattcta cgaagacgaa aagtctggcc taatcaaagt ggtaaaattc 180

agaactggtg caatggatag gaaaaggtct tttgaaaaaa ttgtcatttc cgtcatggtc 240

gggaaaaatg tacaaaagtt cctgacgttt gttgaagacg aaccagattt ccagggcgga 300

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attcaatag 369

<210> 450
<211> 765
<212> DNA
<213> Saccharomyces cerevisiae

<400> 450

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caagagatca cacctaccac gacaaaggaa gcccaagaaa gcgcatcaac tgtagtttct 180

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gtggccgaaa gcaactctgc cgtaagcaca acttcaactg cctctgtgca gcccaccgga 360

gagacgtcaa gcggaatcac caactccgca tcctcctcaa cgacatcaac atcaacggac 420

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gcttatggtg cgggtgcatt cgccgttggt gccctttttgt tatag 765

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<211> 612
<212> DNA
<213> Saccharomyces cerevisiae

<400> 451

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<210> 452
<211> 3096
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<213> Saccharomyces cerevisiae

<400> 452

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gctgtccgtg atcaggaggg gaatgcagtg aagaattctc atattactgg gttctttaga 180

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cccgtattga aaagggaaac aatacggcag aggaaagaaa gaagacaggg aaaacgagag 300

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gatttagaca ctataaatcc agcatcggcc gaatttgaag agctgccaaa ggccacacag 600

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<211> 2859
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<213> Saccharomyces cerevisiae

<400> 453

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gaaaagaaga gaaaggagca acttgaaggt tctagtggca acaataatat tccaatgaag 720

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<211> 1719
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<213> Saccharomyces cerevisiae

<400> 455

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tctttgattg ctgcgattgc tgctcgtgaa acggaaaaag ctaatgctga tgctaacgaa 780

gacaacaatg ttgacgagaa gcaacttgca ggtatcgatg accaaggcca tctacacaca 840

tccggttggt ctcgtttgca ttcgtttgcg attggtctac caaatgcacc tgatttacaa 900

gcggctagaa aagtcgccaa attcattggt tctatccacc atgaacacac ttttacatta 960

caagaaggtt tggatgcttt ggacgacgtg atctaccatt tggaaactta cgacgttacc 1020

actatcagag cttctacacc aatgttctta ctatctagaa agattaaggc ccaaggtgtc 1080

aaaatggttc tttctggtga aggctcggac gaaatattcg gtggctatct atatttcgca 1140

caagcacctt ctgctgcaga atttcacacc gaatctgtgc aacgtgtcaa gaacttgcat 1200

ttggcagatt gtttgagagc taataagtcc acgatggctt ggggtctaga agctcgtgtt 1260

cccttcttag acaaagactt tttgcagcta tgtatgaaca ttgatccaaa tgaaaagatg 1320

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atttctgacg ccatgtttgc caatccaaag gctgattggg gcgacgatat tccaaccacc 1560

aaagaagctt actggtacag gctgaagttt gatgcttggt ttcctcaaaa gactgcggca 1620

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<210> 456
<211> 1644
<212> DNA
<213> Saccharomyces cerevisiae

<400> 456

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tccgaattac tgctacacca gtatgatgat ccattgatgt tcaaaccaaa ttcgcaggac 180

tatttcagga cctttctttt ggggcttttt tcaccatttc tttattattt cctgaagacc 240

tttctattca atataaatca aaggttttta atattgaacc tgatagtgga ttttcctatc 300

aacgacgtct ttatgctttt gatactgatt ggtttagcgt accctcaggt gcaagatcac 360

gaaggcggta cgatcaagca taaggaatgt tcttggcaca tcattccaag acaagcctat 420

atctttggta tatcatgggc cctgggtgaa ttcaccatat gcataatagg gaatttgttt 480

aactaccaag aaatcgccga tccaaacatt aatagtggct tcacacacca ggaaagcgcc 540

aacacttact gtaacaataa tgatatgagc cataacgatg actgcggttg tagtacagaa 600

tatcgcccca acgtcgtaga cagaagtgat attacgttgt ccaaatgtat tgaagtaaga 660

aatgactcat cttccatatc gaataacgta tactcgtctg agtaccatcc aatcaaacct 720

ctacgttcat cgtcatcaac ttatggcagc atacgacagc aacctcatga aaataagaag 780

cagctgcatg taccagataa ttcgcaggac gatacaatta tcatgatgaa ccccatcgac 840

aattcattaa agttgacaac tctagatacg ggtgatttga gtttccccat agacgaagaa 900

cagcccattt tgaagaaatc ttttggttat acatgggcag ttcctaatga aaatacacaa 960

aatactacta aaagcttcac accgataaag agatttattg catttagcac ggcataccag 1020

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ggggaatcat tgattctgtc gatgtatttc gtctatgttc gcggccatga aggattattt 1140

actcccgtgg tgaactactt cggctcaaga accatttcaa atttcatctt atgcgtaata 1200

attcctttca tatctctaaa cttcctcatc aacacttcga tatatttaag aagagagcta 1260

gacgattggt ttaataattc acaggggggag tttgaggacg acgacgaaaa tactatcagt 1320

aagagagtag ctacaaatca agagtaccaa catccactga gtgctaatta catttcgatg 1380

gatagtcctg atgtaataaa tagcagcccg ggtcacttcg ggatgaattc aggccagttg 1440

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gactccgctt tactaagatt ctgcaagaag ctagtcaaaa attggagggc tttggcaaga 1560

aatgattctt ttgtacttgg agtaatggtt tcttggagtc ttcttgtttt tgtaacggga 1620

atactttcaa cagtttatat atag 1644

<210> 457
<211> 1920
<212> DNA
<213> Saccharomyces cerevisiae

<400> 457

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ccccaaaata atacaaaacc tcacaacgac aggaagaatt tcagaagaaa gcaaaagaaa 120

aataaccttt ctgctgaacc caacctcacc acttcaagcg cagatgatac tgatgaagaa 180

aatgaattat gtgtaatttg tgcgcgcaag ttaacatacg tatctctaac accatgccat 240

cataagacat gccatatctg tggtttcaga caacgagctt tgtacaacaa gaaaagctgt 300

ttgatttgca gaacggagaa tgaagaagtc atgtttaccg atcgcataga tggtgatatt 360

tcagataaat ataacttttg cgaaaaaaat gaaaaatatg gaataaattt cactagcgaa 420

gaggttgcta ccgaaacact aaatctttta aaatttttt gtcccctatc gaaggatgaa 480

caagtttgtg actttggtag tttcaagaaa tataatgaac acttgaaatc tgaacataac 540

agaatgatct gtttaatatg tgcaacccat aagcatgcat tcccttgtga gcttgaaata 600

ttcacccaaa atcaattacg caaccatcaa actaagggta attcagaagg attcaaaggc 660

caccctatgt gtgccttctg ttccggaaaa cgattttatt cagacgacga attgtacatt 720

cacatgagaa atcagcatga aaagtgccat atttgtgata agatgaaccc cgcttctcct 780

caatacttta aggattataa tcagcttttt gaccacttta aacattcgca ttacgtttgc 840

accgtccaaa cttgcttaga taacaagttt gtcgtattta aagacgagtt ggagttacaa 900

gcccacattt tgcaggagca tggtaatatc ctgaagggaa agccaaagtt tttccagtca 960

gaactttcta cttttatctc ggctccatct agagtgatca gggaaagaga tgattacgac 1020

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aattccaaag aagacttcaa taagttttct tcttataacg aagattattc taaaggtcgc 1200

ttaagtgctg aaaaattatt ggaatcatat aaattgttat tcacaaaacc aaatgcggat 1260

gtatatttat tgattcataa cttagctgaa acctttccca aaaactcctc caaatacaat 1320

aatctgaacg ccatatatga acaaagagag caaacccttg cacgacaaac ttcactacct 1380

tctttatcta gtgattcttc cctttcaatg tcaataggca ggggccattg gggtggaaca 1440

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agacccgtgc aaaacattaa aagaactaca cctcaatcag ttagttatcg aacttccact 1620

aatacagtcg ccttctctcc aacctatttg gaaagtaaaa agggttcctc ttctacttct 1680

ctaaataata gcaaagataa attgaaaagt ctcaacctac ctcaactacc tccaccaaag 1740

ccaaaggtgc aaattccagg tctgaacaga ccccaaattg ctgatcctaa gcagtggggt 1800

aaaaagtcaa gcacacaaga tactaacgtg cacgataatt tgagggaatt gaacacaact 1860

agtggaggaa ataaaaagaa aggcaaacaa aagcagctgt tattccacat tggtgtatag 1920

<210> 458
<211> 1212
<212> DNA
<213> Saccharomyces cerevisiae

<400> 458

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gatggtttgt cagtgcagga actgatggac tccaagatca gaggtgggtt ggcttataac 120

gatttttaa tcttaccagg tttagtcgat tttgcgtcct ctgaagttag cctacagacc 180

aagctaacca ggaatattac tttaaacatt ccattagtat cctctccaat ggacactgtg 240

acggaatctg aaatggccac ttttatggct ctgttggatg gtatcggttt cattcaccat 300

aactgtactc cagaggacca agctgacatg gtcagaagag tcaagaacta tgaaaatggg 360

tttattaaca accctatagt gatttctcca actacgaccg ttggtgaagc taagagcatg 420

aaggaaaagt atggatttgc aggcttccct gtcacggcag atggaaagag aaatgcaaag 480

ttggtgggtg ccatcacctc tcgtgatata caattcgttg aggacaactc tttactcgtt 540

caggatgtca tgaccaaaaa ccctgttacc ggcgcacaag gtatcacatt atcagaaggt 600

aacgaaattc taaagaaaat caaaaagggt aggctactgg ttgttgatga aaagggtaac 660

ttagtttcta tgctttcccg aactgattta atgaaaaatc agaagtaccc attagcgtcc 720

aaatctgcca acaccaagca actgttatgg ggtgcttcta ttgggactat ggacgctgat 780

aaagaaagac taagattatt ggtaaaagct ggcttggatg tcgtcatatt ggattcctct 840

caaggtaact ctattttcca attgaacatg atcaaatgga ttaaagaaac tttcccagat 900

ttggaaatca ttgctggtaa cgttgtcacc aaggaacaag ctgccaattt gattgctgcc 960

ggtgcggacg gtttgagaat tggtatggga actggctcta tttgtattac ccaaaaagtt 1020

atggcttgtg gtaggccaca aggtacagcc gtctacaacg tgtgtgaatt tgctaaccaa 1080

ttcggtgttc catgtatggc tgatggtggt gttcaaaaac attggtcata ttattaccaa 1140

agctttggct cttggttctt ctactgttat gatgggtggt atgttggccg gtactaccga 1200

atcaccaggt ga 1212

<210> 459
<211> 1248
<212> DNA
<213> Saccharomyces cerevisiae

<400> 459

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gtcaaggctt tgaagctgga cgttaaggtt gttacgccag atgccgccgc tgaacagttc 120

gcaagggact ttcccttgaa gaaggttccg gctttcgtgg gtccaaaggg ttacaagcta 180

accgaggcaa tggcgattaa ctattattta gtaaagcttt cacaggacga caagatgaag 240

actcaacttt taggtgccga cgatgactta aatgcccaag cgcaaatcat cagatggcaa 300

tctttggcca acagtgatct gtgcatccag attgccaaca ccatcgttcc cttgaagggc 360

ggcgcccccc acaacaagaa gagcgttgat tctgcgatgg acgctgttga caagatcgtc 420

gacatcttcg agaacagatt gaaaaactac acctatttgg ctacggaaaa catctccttg 480

gccgacttgg tggctgcctc gattttcacc agatactttg aaagcctgtt cggtactgaa 540

tggagagctc aacatccagc catcgtgaga tggttcaaca ccgttagagc ctcacccttc 600

ttgaaggatg aatacaagga tttcaagttc gctgacaagc cattgagtcc ccctcaaaag 660

aagaaggaaa agaaggcccc agccgccgct cccgccgctt cgaagaagaa ggaggaagcc 720

aagccagctg ctaccgaaac tgaaacttct tccaagaaac caaagcaccc attagaatta 780

ttgggcaagt caactttcgt tttggatgac tggaagagaa agtactccaa tgaagacacc 840

agaccagttg ctttaccttg gttttgggag cactacaacc cagaagagta ttccctgtgg 900

aaagtcacct acaagtacaa cgatgaattg actttgactt tcatgtccaa caacttggtc 960

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gttccagctt tcgatgtcgc accagattgg gaatcttacg actatgcaaa gttggatcca 1140

actaacgacg acgacaaaga attcatcaat aacatgtggg cctgggataa gccagtttcc 1200

gtcaatggcg aaccaaagga aattgttgac ggtaaggtct taaaataa 1248

<210> 460
<211> 1935
<212> DNA
<213> Saccharomyces cerevisiae

<400> 460

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cagtcaacca aaattccaga tgcagttatc ggtattgatt taggtactac caattctgcg 120

gtagctatta tggaaggtaa agttccgaga attatcgaaa atgcagaagg ctcaagaact 180

actccgtctg tagtggcttt cactaaagac ggagaacgtt tagttggtga gccagccaaa 240

cgacaatccg tcataaactc agaaaacact ttgtttgcta ctaagcgttt aatcggccgc 300

cgtttcgagg acgctgaagt ccaaagagat attaatcagg ttcctttcaa aatcgtcaag 360

cattctaatg gagatgcctg ggtagaggct agaaacagaa cgtactcccc cgcccaaata 420

ggaggtttta tcttaaataa aatgaaggaa acagcggagg cttacttagc gaagagcgtc 480

aaaaatgctg ttgtcaccgt tcctgcttac ttcaatgatg cccaaagaca agctactaaa 540

gacgcaggac aaattattgg gcttaatgta ttacgtgttg tcaacgaacc aacagctgct 600

gccctagctt acggtctaga taaatcagag ccaaaagtca ttgctgtttt cgacttgggc 660

ggtggtactt tcgatatttc aatcctggac atcgataacg gtatctttga ggttaaatct 720

accaatggtg acacccattt gggtggcgaa gattttgaca tttatttgtt gcaagaaatt 780

atttctcatt tcaagaaaga aaccggtatc gatttgagta atgaccgtat ggctgtccaa 840

agaataagag aagccgctga aaaggctaaa atcgaactgt cttctacact ctctacagaa 900

ataaacttgc ctttcataac tgctgatgct gcaggcccaa agcatattcg tatgcccttt 960

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aaaaaagcac tgaaagacgc aagaattacc gcctcagata tatcggatgt tttattagtt 1080

ggtggtatgt caaggatgcc caaggttgca gatactgtaa agaaattatt cggtaaggat 1140

gcatcaaaag ctgttaaccc tgatgaagca gtcgctttag gggccgctat acaggctgcg 1200

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aagaaatctc aaatttttc aactgcggca tcaggtcaaa catcggtgga agttaaagtt 1380

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ggcattcctc cagctccaaa aggtacccca caaattgaag tcacttttga tatcgatgcg 1500

aacggcatca tcaacgtttc agcaaaagat ctcgccagcc acaaagactc ttccatcact 1560

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agatataaaa atcaggatag agccagaagg aatgccatcg aaaccgctaa caaagctgac 1680

cagctagcta atgacacaga aaattccatt aaggaattcg aaggtaagct agataaaact 1740

gattctcaaa gactaaaaga tcaaatttca tccttaaggg aattggtttc tcggagtcaa 1800

gctggagatg aggttaatga tgacgatgtt ggaacaaaaa ttgacaattt gcgaacttca 1860

tcgatgaaac tttttgaaca gttatacaag aacagtgaca atcctgaaac taagaacggg 1920

agagaaaata aataa 1935

<210> 461
<211> 1728
<212> DNA
<213> Saccharomyces cerevisiae

<400> 461

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aaaatggcta caggatatcc gaggtacttt cctcaacccc ccgtccagag gctttgtgct 180

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cttgaagtgg aaacagttac gattaaaaac cgtggggcaa aaacgtcgaa agaaccggcg 360

gaattggtgc taaccattgc tgctgtcctt gcatcggagg aagagttcga gactgtgaaa 420

gagtattgga aattaagagg tgaatgtgta tctagtcgat tggcgttgtc tgtcaaccaa 480

cttcttgact gcgctaatca tggctcagag caggtattgc gtgagctaga ggctggtgtt 540

tttgcagcaa agaaggggga ggagaaagca aagaacctga taaagggaag gatagttgag 600

aatcgcttca ggccctttgg tttggagaag aaaaccccga attgggaggg actcaacctc 660

aacccaaatg aagacgttta tcttgtatca agtggcatgt ctgcaatatc tacggctcgt 720

aatttactca ccttttggga ggagaagaag aattcaggag attcattaaa caagaccacc 780

tctgaccaaa agaaaaagcc attattatgt gacactgttg gcatcttcgg cttccctttc 840

aaagatacgc aggtcattat gactaaattt ggaaaatgta aatttttgg atttggaaat 900

tctagagacg ttgtcgaatt acaaaagttt ttagaaacaa gcaaacaacg cattcttgcc 960

gttttcgtcg agacaccttc aaatcctctg ctgaatatgc cggatttgaa aaaattgagg 1020

agtttggccg accagtatgg ctttttttatt gtaattgatg atactattgg gggccttaac 1080

gttgacatct tgccctatgc tgatatagtc agcacgtccc tgactaagct tttcaatggt 1140

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gctcgtgagt acttcaggag cgctaatttc gaggatttgt tatggtgtga agatgcgata 1260

gttttagaac gtaattccag ggattttgaa gatagaactt tacgtgctaa tgcaaacaca 1320

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tatccaactg ttacttctaa ggagaccttt gagaactacg aaagtgtacg taatgaacgt 1440

ggtggctatg gatgcttgtt ctctgtagcc ttttttcaatg agggcgatgc aaaagcattc 1500

tatgactctt taaaggtatt caagggacct tctaatggta ctaactttac cttagcatgt 1560

ccatatgtcc atctggcgca ccactcagaa ttagaagaag tttccaagtt tggggccgac 1620

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tcaagtgctt tagatgttgt gaaaagcaga ggctccaaac actcatga 1728

<210> 462
<211> 1536
<212> DNA
<213> Saccharomyces cerevisiae

<400> 462

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caactatgtg atattgaatt gattctaaat ggtgggtttt ctcctctgac tgggtttttg 180

aacgaaaacg attactcctc tgttgttaca gttcgagat tagcagacgg cacattgtgg 240

accatcccta ttacattaga tgttgatgaa g atttgcta accaaattaa accagacaca 300

agaattgccc ttttccaaga tgatgaaatt c tattgcta tacttactgt ccaggatgtt 360

tacaagccaa acaaaactat cgaagccgaa aaagtcttca gaggtgaccc agaacatcca 420

gccattagct atttatttaa cgttgccggt gattattacg tcggcggttc tttagaagcg 480

attcaattac ctcaacatta tgactatcca ggtttgcgta agacacctgc ccaactaaga 540

cttgaattcc aatcaagaca atgggaccgt gtcgtagctt tccaaactcg taatccaatg 600

catagagccc acagggagtt gactgtgaga gccgccagag aagctaatgc taaggtgctg 660

atccatccag ttgttggact aaccaaacca ggtgatatag accatcacac tcgtgttcgt 720

gtctaccagg aaattattaa gcgttatcct aatggtattg ctttcttatc cctgttgcca 780

ttagcaatga gaatgagtgg tgatagagaa gccgtatggc atgctattat tagaaagaat 840

tatggtgcct cccacttcat tgttggtaga gaccatgcgg gcccaggtaa gaactccaag 900

ggtgttgatt tctacggtcc atacgatgct caagaattgg tcgaatccta caagcatgaa 960

ctggacattg aagttgttcc attcagaatg gtcacttatt tgccagacga agaccgttat 1020

gctccaattg atcaaattga caccacaaag acgagaacct tgaacatttc aggtacagag 1080

ttgagacgcc gtttaagagt tggtggtgag attcctgaat ggttctcata tcctgaagtg 1140

gttaaaatcc taagagaatc caacccacca agaccaaaac aaggtttttc aattgtttta 1200

ggtaattcat taaccgtttc tcgtgagcaa ttatccattg ctttgttgtc aacattcttg 1260

caattcggtg gtggcaggta ttacaagatc tttgaacaca ataataagac agagttacta 1320

tctttgattc aagatttcat tggttctggt agtggactaa ttattccaaa tcaatgggaa 1380

gatgacaagg actctgttgt tggcaagcaa aacgtttact tattagatac ctcaagctca 1440

gccgatattc agctagagtc agcggatgaa cctatttcac atattgtaca aaaagttgtc 1500

ctattcttgg aagacaatgg ctttttttgta ttttaa 1536

<210> 463
<211> 3342
<212> DNA
<213> Saccharomyces cerevisiae

<400> 463

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ggcttgaagg aggctacaaa aactttgcaa actcaatttt atacccagcc tacaactttg 120

ccagctttga ttcatatttt gcagaacggc tccgatgatt cgttgaaaca actagctggt 180

gttgaagcta gaaagttggt ttccaagcac tggaacgcca ttgatgaatc cactagagcc 240

tccatcaaaa catctctttt acaaacagca tttagtgagc caaaagaaaa tgttcgtcat 300

tccaacgctc gagtaattgc ttctattggt actgaagagc tagatggtaa caaatggcca 360

gatttagtcc ctaacctaat ccaaactgct tctggtgaag acgttcaaac aagacaaact 420

gccatttta ttttgttttc tctgttggaa gatttcacct cttctctatc tggccacatc 480

gatgactttt tggctttgtt ctctcagaca attaatgatc catcttcttt ggagatcaga 540

tcattatctg cccaggcttt gaaccacgtt tctgctttga ttgaagaaca agaaaccatc 600

aaccctgttc aagctcaaaa attcgccgcc tcaattccat ctgtggttaa cgttttagac 660

gcagttatca aggccgacga caccatgaac gctaaattaa tctttaactg tttaaacgat 720

ttcctgctat tggactccca attaacagga aactttattg tggatttgat taagctgtct 780

ttacaaattg ctgttaacag tgagattgac gaagatgttc gagtttttgc tcttcaattc 840

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aacgaagacg aaacaggcga aaatgaggaa aatacaccct cttcttctgc tattagactg 1020

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<211> 1113
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<213> Saccharomyces cerevisiae

<400> 464

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<211> 2091
<212> DNA
<213> Saccharomyces cerevisiae

<400> 467

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<212> DNA
<213> Saccharomyces cerevisiae

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<213> Saccharomyces cerevisiae

<400> 469

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gccttattca catttgtccg tgccatggct ccattcaccc cattttttgtc agaaagcatt 2340

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atcgactttg aagccattgt caaagaacat tttgatatgt taagcaagac ctgtagatcc 3120

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<210> 471
<211> 324
<212> DNA
<213> Saccharomyces cerevisiae

<400> 471

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aatggaaccc ttgtacgaca atggtacatc aggtttagtc tttgccatac cagcatttcc 180

ttcacacaac ttcaaaaaat ttccagccgt tttaggcact atgtcattgt acaactcaaa 240

aactatacgg ccttggggtt tacctccaat agaaatatca aaaaaagttt taggtctagt 300

catttttact ccttgatcgc ctga 324

<210> 472
<211> 363
<212> DNA
<213> Saccharomyces cerevisiae

<400> 472

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accaccactc tagctcaatc tgacgaaaga gtcaacttgg ttgaattggg tgtctacgtc 120

tctgatatca gagctcactt ggcccaatac tactctttcc aagccgctca tccaactgaa 180

acctacccag ttgaaatcgc tgaagccgtt ttcaactacg gtgacttcac caccatgttg 240

actggtattg ccccagacca agtgaccaga atgatcaccg gtgttccatg gtactccagc 300

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tag 363

<210> 473
<211> 1917
<212> DNA
<213> Saccharomyces cerevisiae

<400> 473

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agtgctactg caaatagcag gagcagcaac agcagcagcg agagtagtag taacaaaaac 120

aatatcaatg tcggcgtcgg tgacgatagc ggtaatgtca gcgcggtaag tatcgacgat 180

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atctcttcga tggctaaaag gattcaaaag tattttgaaa aaaagttatc tgcaatgcca 720

ccaagagttt tacccgcttc tgccttgaag aaaacaagca gaaaccggaa aaaaaatgag 780

gatatggatt ccccacttgt cattagacgt tcagttagta ccaccaatga caatattggg 840

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<210> 474
<211> 1152
<212> DNA
<213> Saccharomyces cerevisiae

<400> 474

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cagaggagtg aagtatttca agaatgtgtg aacctttca taaaaagaga tatcaaggat 180

tgcctagaaa aaatgtctga ggttggattt attgatatta ccgttttcaa gtccaaccct 240

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ctggagcttg aatccataat gagtgatttc attttcgtat acataacgaa aatgaggaca 540

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gaacaggtta aggttgagga tgcgtttaat caacgcacct ctactgatag tagactccag 900

agtactggaa cggcgccccg taaaaaaaac aatgatatta ctgttctggc tggttcattt 960

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acaggtctgc tgctactctt atgtttgaaa aaatataagt cattgatggc aattttcaaa 1080

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<211> 2106
<212> DNA
<213> Saccharomyces cerevisiae

<400> 475

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gaagtagcat tatcagaggt gatagcacaa gatattattg aagtaggggc tagtgttgag 180

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gtagctgtac aacaaacaca aatgcaagct ggcgtagaca aactagatag ttttgaacgt 300

cagttagatg agttagctga acaaccgccg gatcaattca ctctagatga cgtaaaggcg 360

ctacactcaa agttgacgag tgtcttcgct acagttcctc aaatcaataa tatagattct 420

cagtatgctg cttataacaa acttaaatca aaggttaccg gcaaatataa tgacgttatt 480

atacagaggt tagctactaa ctggagtaat acgtttgatc agaaattgtt agaagcgcaa 540

tgggatacgc aaaaatttgc atccacatca gttggtttgg ttaaatgtct gagagaaaat 600

tccaccaaac tttatcaatt aagtctgctc tacttacctt tggaggagga aacacagaat 660

ggagatagcg aacgcccact ttcacgctca aacaataacc aagaacctgt gctatggaat 720

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ttaaacccag aatacattaa aacaggtaat ttcacatcat tgaaagaagc ttattccatt 2040

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<210> 476
<211> 1692
<212> DNA
<213> Saccharomyces cerevisiae

<400> 476

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gaaggtatga gatgggctgg taacgccaac gaattgaacg ctgcttacgc cgctgatggt 180

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gtcccatcca tctctgctca agctaagcaa ttgttgttgc accacacctt gggtaacggt 360

gacttcactg ttttccacag aatgtctgcc aacatttctg aaaccactgc tatgatcact 420

gacattgcta ccgccccagc tgaaattgac agatgtatca gaaccactta cgtcacccaa 480

agaccagtct acttaggttt gccagctaac ttggtcgact tgaacgtccc agctaagttg 540

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<211> 2685
<212> DNA
<213> Saccharomyces cerevisiae

<400> 477

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aataagcacc atgttgtgga gccacatgac gccaacgatg aaaatctgcc gctattggca 180

gatgcttctc cagatgatca attctacatc tctaaatttg ttgctgcctt aaaccaagaa 240

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<210> 478
<211> 4086
<212> DNA
<213> Saccharomyces cerevisiae

<400> 478

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agaagaacaa ggagtgacca taacataaca atggttgcta aagatgatga gctatacttg 180

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<213> Saccharomyces cerevisiae

<400> 479

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<213> Saccharomyces cerevisiae

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<211> 2115
<212> DNA
<213> Saccharomyces cerevisiae

<400> 481

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gaatggggtg aatttttgca tttacctggt aagaagtttt ataattttga cgaaattaga 420

aaggaaatcg tcaaagaaac tgacaaagtg acaggtgcca attcaggtat ttcttctgtg 480

cccattaact tgagaattta ttctccgcat gttcttactt tgacgttagt ggatttgcct 540

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<211> 2028
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<213> Saccharomyces cerevisiae

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<400> 483

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<211> 1041
<212> DNA
<213> Saccharomyces cerevisiae

<400> 484

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ctcgacgtcg tcgtcctctc cttgacccat ccgtacccaa aacacctcct caacgagatg 900

atccacggcc tcaagccagt cgccctgtgc tgctccctct cggtcatcct gtccactctg 960

cagaacttcg tctgctctgt gcccatcctc gcggttagaa agaagctgaa acgtgccaag 1020

cgcaagggca tcagcgagtg a 1041

<210> 485
<211> 2880
<212> DNA
<213> Saccharomyces cerevisiae

<400> 485

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aacaacaatt ccaccagtaa caatgcccaa tcaggatttg gtggattcac ttctgccgct 180

ggcagtaata gtaacagttt atttggaaat aacaatactc aaaataatgg ggcatttggc 240

cagtcaatgg gtgccaccca aaactcacca tttgggtcgt taaactcctc aaatgccagt 300

aatgggaaca cttttggagg atccagttca atgggttctt ttggtggtaa taccaataat 360

gcatttaata ataacagtaa cagtaccaat tccccgtttg gtttcaataa accgaataca 420

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ggccaaagta caagtaccac tggcacattc ggaaacaccg gaagtagttt cggaacaggc 540

ttaaatggca acggctctaa catatttggg gcagggaaca actcacaaag caatactacc 600

ggcagcttgt ttggcaacca acaatcttca gcgtttggga caaataatca acaaggaagt 660

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ggcagttcct tcggatcaaa accagttggt tcagggtcgc tgtttggcca gagcaacaac 780

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actttatatt cctgttttcc tattgacaaa gaaacaagga aacctataaa gaatataaca 2760

catcctctac tgaaaagaag tatagccaaa ctaaaagaaa acccagtgta caagtttgaa 2820

agctatgacc ccgtaacagg cacctatagt tacaccatag atcacccagt tttaacttaa 2880

<210> 486
<211> 1335
<212> DNA
<213> Saccharomyces cerevisiae

<400> 486

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cactgtttcg aactgttgaa cttgacctcc agatcgtttg ctgctgtgat cagagagctg 180

catccagaat tgagaaactg tgttactctc ttttatttga ttttaagggc tttggatacc 240

atcgaagacg atatgtccat cgaacacgat ttgaaaattg acttgttgcg tcacttccac 300

gagaaattgt tgttaactaa atggagtttc gacggaaatg cccccgatgt gaaggacaga 360

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caagaagtca tcaaggagat caccgagaaa atgggtaatg gtatggccga ctacatctta 480

gatgaaaatt acaacttgaa tgggttgcaa accgtccacg actacgacgt gtactgtcac 540

tacgtagctg gtttggtcgg tgatggtttg acccgtttga ttgtcattgc caagtttgcc 600

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accaacatca tcagagatta caatgaagat ttggtcgatg gtagatcctt ctggcccaag 720

gaaatctggt cacaatacgc tcctcagttg aaggacttca tgaaacctga aaacgaacaa 780

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gttatggcca ttgcaacctt ggctttggta ttcaacaacc gtgaagtgct acatggcaat 960

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tgtgtcgaga tttttgacta ttacttacgt gatatcaaat ctaaattggc tgtgcaagat 1080

ccaaatttct taaaattgaa cattcaaatc tccaagatcg aacagtttat ggaagaaatg 1140

taccaggata aattacctcc taacgtgaag ccaaatgaaa ctccaatttt cttgaaagtt 1200

aaagaaagat ccagatacga tgatgaattg gttccaaccc aacaagaaga agagtacaag 1260

ttcaatatgg ttttatctat catcttgtcc gttcttcttg ggttttatta tatatacact 1320

ttacacagag cgtga 1335

<210> 487
<211> 1683
<212> DNA
<213> Saccharomyces cerevisiae

<400> 487

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gcgagcaata gtagtagtcg tataaaagag acaagaaaag tcaaactatt atataatccc 120

ttaactaaga gacaaatcct taacaacttt gaaattttag ccactttggg taatggacag 180

tacggcaaag tgaaattagc aagagatctc gggacaggtg cgttggttgc aataaaaatt 240

cttaatagat tcgaaaaaag aagcgggtat tctcttcaat tgaaagtaga aaatccaagg 300

gttaatcaag aaattgaagt aatgaaaaga tgtcatcatg aaaacgttgt ggaattgtat 360

gaaattttga atgaccctga gagcacaaag gtttatcttg tattagaata ttgctcaagg 420

ggacccgtta aatggtgtcc agaaaacaaa atggagataa aagcagtggg accatcaata 480

ctcactttcc aacagtcgag gaaggtagtg ttggatgtag tatcgggtct ggagtattta 540

cattcccaag ggataacgca tcgagatatc aaaccatcga acctgttaat ttcatcaaac 600

ggaacggtga aaatatccga ttttggcgtt gctatgtcaa ctgccaccgg aagtactaat 660

atacaatcat cgcatgaaca acttttaaaa tctagagcct tagggacccc tgctttttt 720

gcacctgagc tttgctccac tgaaaaagag tattcctgct catctgccat cgatatctgg 780

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atgttgaatg gtgccacttc gggaatcaca atggaagaat acactgatgc caaagattta 960

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acgtttcatg agttgaaagt ttcaccgccc tcttcatgca aaagggtaga attggtcagc 1140

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tgtgagtttc cacaatatac aactatgtct cctgtaggag aatatccctt tgagagtacg 1500

gaagcaagtt tgagctctac tcttacgcct gtcggtaatg tacctcaacg tataaaagcc 1560

cacctggtag aagggaaatc taacagcaag gatgacctta gaatagaagc agacgcatca 1620

cttgtatttg aggctagcga cgcccagcgc acgagaagaa gaatgtctct ttataagctt 1680

tag 1683

<210> 488
<211> 2145
<212> DNA
<213> Saccharomyces cerevisiae

<400> 488

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gatttcagaa acatcaaaat tgtagaagaa cctgttgtac tttctcacaa tagttcaatt 180

gacgaatcac tggatgctgc tacccaaaat actaaaaagc gggagaaata tgaaggtacc 240

tgtgatgaag aaatgaaaac taaagaaatg gaggcaaata tggcaagcaa atattctaat 300

atcaaaacac attcgaacga cactaacaag gtagagtcga tcagtgaaca cactacttct 360

aataatagac cattgaatac attaaactgg tcaccaaata ttcctttacg atattctgac 420

tttgcaaagt ttatgagtga tgagacggta acggaaagca attgggcgcc tccccctttgc 480

acccctctcc catatgcagg cgatgttatg aagatccttt cttttatcgt caaatttaaa 540

tgggtgttca gcgacgatct actgaacctg tcatttcaag atgtggagat aggactagaa 600

ttaaaggtgg ctggccattc tgcgaagaat attcgaattt gtcaggataa aatgaatcta 660

ctattttgca gtcttttgag gttattattc tgctccgaga aaagagcaga caaccaaact 720

catagaaatt tcacgctaaa aagatttctt agtttgaaaa atccatatgg aaaactggtt 780

ggcaaactca gaagcttaat ccaggagtgg ggcttaccaa aagaatggcg tggtaatagt 840

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tgctctttga tgagtcaaaa gttggaaaat cgaaagaaaa ggaagcccag cgacaaagga 1140

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gaaaaagtaa ctacagacag attacgagct gcagttaaaa taaatgaaga atggggtgaa 1260

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gaagttgcag gagactcgaa ttctttgagc aacttcattg agtatttgga aagtttatca 1680

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ggcagtactg aaggacgtca tttgcgaaca agctctcaga gaagaaccac ggtgcattac 1860

tcgagtgatg taaatggtga cgtttccgag gaaagtgaaa atgaagttga cattgacgtt 1920

agcgatgact atgattcaga atatctgagt gaggagaata cattgacaag aaaaggtgaa 1980

gataggacag ataaatcttt tgggaaaaga gaattacaca atggcgctaa agattgtgat 2040

aggaattgtg atgatataga gatcttctca gaacccgtta ggcaactaca agataattct 2100

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<210> 489
<211> 573
<212> DNA
<213> Saccharomyces cerevisiae

<400> 489

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ggtacccgtc acaatgtagg gctatatatg ctggagctgc tacgaaagcg gcttggtctg 120

caggggagaa cttattcccc tgtgcctaat acgggcggca aagtgcatta tatagaagac 180

gaacattgta cgatactaag atcggatggc cagtacatga atctaagtgg agaacaggtg 240

tgcaaggtct gggcccggta cgccaagtac caagcccgac acgtagttat tcatgacgag 300

ttaagtgtgg cgtgtggaaa agtgcagctc agagccccca gcaccagtat tagaggtcat 360

aatgggctgc gaagcctgct aaaatgcagt ggaggccgtg tacccttgc caaattggct 420

attggaatcg gcagagaacc tgggtcccgt tctagagacc ctgcgagcgt gtcccggtgg 480

gttctgggag ctctaactcc gcaggaacta caaaccttgc ttacacagag tgaacctgct 540

gcctggcgtg ctctgactca gtacatttca tag 573

<210> 490
<211> 615
<212> DNA
<213> Saccharomyces cerevisiae

<400> 490

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ggtgaacgtg gtttattttc cactattgta ggtggcagtg ccggtgcgta cgctggatct 180

aaggtgtcga acaaccattc taagttgagt ggtgtgctgg gcgccatagg tggtgcattc 240

cttgccaaca agatatctga tgagcgtaaa gagcataagc aacaagagca atacggcaac 300

tcaaacttcg gaggtgctcc tcaaggtgga cacaacaacc atcaccgtca gacaataaca 360

acaataacgg tggatttggc ggtccaggcg gccctggcgg tcaaggtttc ggaagacaag 420

gcccacaagg atttggaggt cctggtccac aagagtttgg tggtccaggt ggccaaggat 480

tcggtggtcc aaatcctcaa gaattcggcg gccaggtggc caaggattcg gtggtccaaa 540

ccctcaggaa ttcgggggcc aaggtcgtca aggattcaat ggcggttcac gttggtgaat 600

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<210> 491
<211> 633
<212> DNA

<213> Saccharomyces cerevisiae

<400> 491

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acgtaccggt gctctatcaa gaacctaccc gcggatgtct ccaagctcat gtactcgata 180

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cctgagtcca tagacactat tttgtcgtcc aagctgtcca acatctggat gcagaggcag 360

ctcatcaagg gtgatgccgg tgagacgttg atcttggacg ggctcaccgt gcgactcgtc 420

aacctcttct cctccactgg gttcaagggt ctcctgatag aactgcaggc ggacgaagcg 480

ggcgagtttg agaccaagat tgcaggcatc gaaggacacc tagctgaaat ccgggccaag 540

gagtacaaaa cctcatccga ctcgttgggg ccggacacca gcaacgaaat atgtgatttg 600

gcgtaccagt atgttcgtgc tctggagctg tga 633

<210> 492
<211> 1377
<212> DNA
<213> Saccharomyces cerevisiae

<400> 492

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tctaccacta ccggtcattt gatttacaag tgtggtggta ttgacaagag aaccatcgaa 120

aagttcgaaa aggaagccgc tgaattaggt aagggttctt tcaagtacgc ttgggttttg 180

gacaagttaa aggctgaaag agaaagaggt atcactatcg atattgcttt gtggaagttc 240

gaaactccaa agtaccaagt taccgttatt gatgctccag gtcacagaga tttcatcaag 300

aacatgatta ctggtacttc tcaagctgac tgtgctatct tgattattgc tggtggtgtc 360

ggtgaattcg aagccggtat ctctaaggat ggtcaaacca gagaacacgc tttgttggct 420

ttcaccttgg gtgttagaca attgattgtt gctgtcaaca agatggactc cgtcaaatgg 480

gacgaatcca gattccaaga aattgtcaag gaaacctcca actttatcaa gaaggttggt 540

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gaagctacca ccaacgctcc atggtacaag ggttgggaaa aggaaaccaa ggccggtgtc 660

gtcaagggta agactttgtt ggaagccatt gacgccattg aacaaccatc tagaccaact 720

gacaagccat tgagattgcc attgcaagat gtttacaaga ttggtggtat tggtactgtg 780

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gttccaggtg acaacgttgg tttcaacgtc aagaacgttt ccgttaagga aatcagaaga 960

ggtaacgtct gtggtgacgc taagaacgat ccaccaaagg gttgcgcttc tttcaacgct 1020

accgtcattg ttttgaacca tccaggtcaa atctctgctg gttactctcc agttttggat 1080

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aagttcgttc catctaagcc aatgtgtgtt gaagctttca gtgaataccc accattaggt 1260

agattcgctg tcagagacat gagacaaact gtcgctgtcg gtgttatcaa gtctgttgac 1320

aagactgaaa aggccgctaa ggttaccaag gctgctcaaa aggctgctaa gaaataa 1377

<210> 493
<211> 2865
<212> DNA
<213> Saccharomyces cerevisiae

<400> 493

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tatgcagaaa atattgccaa atctcatcac tgctattaca aagtggacgc cgagtctatt 180

gcacacgatc ctttagagaa tgtgcttcat gctaccataa ttaaaactat accaagattg 240

gagggcgatg atatagccgt tcagttccca ttctctctct ctttttttaca ggatcactca 300

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gcgaacagga ccagtattcc acaattccac ttccttaagc aaaaacaaac tgtgaactca 480

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gtcatgtccc tggggccaga tattccaact atcattgaca aatttaccga tttgactggt 1140

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tacttaaaga tttccattcc tatggttctg tcaaacaaca ttgctggtat gccatttata 1920

ggagccgaca tagctggctt tgctgaggat cctacacctg aattgattgc acgttggtac 1980

caagcgggct tatggtaccc atttttttaga gcacacgccc atatagacac caagagaaga 2040

gaaccatact tattcaatga acctttgaag tcgatagtac gtgatattat ccaattgaga 2100

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<211> 786
<212> DNA
<213> Saccharomyces cerevisiae

<400> 494

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agagcaaagg attctcatca aaagtatatt atcaaatata ggccaccaaa gcgttataga 180

catccacaaa tagaccaggc actaacaaaa catcgtacgt tgaatgagtc gcgtttattg 240

gccaaattat acttgattcc agggctatgt gtccctcaac tgatagcgtg tgatccatac 300

aatggattca tttggttaga gttccttgga gaagatcttc ccggagggca cggttttagt 360

aacctaaaga acttcctttg gatgcatgac caagatccat atagtgatct tgtagcaact 420

acactacgga aagtggggcg ccaaattggg ttgttgcact ggaatgacta ctgtcatggt 480

gatttgacaa gttctaacat tgttctcgtg cgagatggtg cgagatggac gcctcatttg 540

attgatttcg gtctgggctc agtttcaaac ctggtcgaag ataaaggcgt cgatttatac 600

gtcttagaga gagctatttt aagtacacat tcgaagcatg cggaaaaata caatgcttgg 660

atcatggagg ggttcgaaga ggtctatcgt gaacaaggtg cgaaaggtgc caagaaactg 720

aaagaagtta ccaaaagatt cgaagaggtc aggttgcgtg gtcgtaagag aagtatgcta 780

ggataa 786

<210> 495
<211> 2418
<212> DNA
<213> Saccharomyces cerevisiae

<400> 495

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attgaaagtg tctctttgat cacttcgccg cactcagata tcactttctt ttcaaatcga 660

gacaagttca agttcattat tttatatact gacactcaat tgcataataa tttccagcaa 720

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aagagtatgc cgatggtatc catgaatacg cagcctttgc taacaacggt gcaaaggcct 1020

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ccaccattta gatacagact gtatggggtt gcatgtcatt cggggagttt gtatggggga 2280

cactatactt catacgttta taagggacca aaaaaaggtt ggtatttttt cgatgactcg 2340

ctttatcgtc ctataacgtt tagtactgaa tttatcacac ccagtgcata tgttttattt 2400

tacgaaagaa ttttttga 2418

<210> 496
<211> 2295
<212> DNA
<213> Saccharomyces cerevisiae

<400> 496

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acttcgttgg catcattaaa ggctatccga tcaggaaatg aagaggaaag cgggaacgag 180

caggtgaatc ataatgatga ggccgaagaa gatcctctgt taactcgcta ccataccgct 240

tgccaaagag gtgatctagc gactgtcaaa gaaatgatac atggaaagtt gctcgaagtt 300

aataacgacg gtgactctac ggaacatatc actggtttgc attgggcaag tattaataac 360

agactttctg tagtggattt tctagtttca caaggcgctg atgtcaatgc aagggctggt 420

gctttgcatg ccacaccatt acattgggct gcaaggtatg ggtacgtgta cattgtcgat 480

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gctgcttacc agggagattc cctaactgta gcagaattgt tgaaatttgg tgccagcata 720

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catgtactaa aatacttgat tcaagatggt gcagattttt tccaaaaaac ggataccgga 840

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acacattctg gattcgacta ccatggttat cccattaaaa aatggttcaa aaaaagtcaa 960

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cgcacttgtt ttggcgtttg ttacgcggtg actggtatgg atcagtggtt agcggttata 2040

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ataccaacaa attacggttg gaaaagaaat gttaaagact tttggcttac aagcgatata 2160

aatgcgcctt tgtggaggcg aattttgtat cctccttcgg gctctaaagc tttgctcaac 2220

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aatgatatgg tatga 2295

<210> 497
<211> 2013
<212> DNA
<213> Saccharomyces cerevisiae

<400> 497

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actttaaatg ctaccagcaa cagtagtaaa caaggagttt caaataataa aaggaatccg 120

gtcagtaaaa agaaaccagg gaataaggtc tctgatggaa gagataatgc acataattat 180

cacggggaag gccgcagaaa aagtagcaaa caacagaggt caagaacgcc ctataaggag 240

actagtacta ggatcaatga tcaagatata gatttatcta tccaggaaga aattcttggt 300

ggtaatttca aattacgagg caggaaaact caagtttcca ttaatcattt gttgaatttc 360

cagttacctg aagtcgaaag ggaaaaaagt aggtcctctt caagtaagaa atcgaatagg 420

agacgcgatg agcacgtaca tttacacggt gacacatttg ttaatgttaa ttaccgtctt 480

ttggtagatg atcgttttga ctacccagag caaaactgta acccgaacgt tcctgtcgat 540

caagaaaaga ttctaagagt catagtgcca aagggtcaga attgttctat ttgtctgagc 600

gaggaaccgg tggctcccag aatggttact tgtggccata ttttctgtct aagttgtctc 660

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tatgaatcca ttgtaagctc ttccatacct ctcaactcct taggaatttc tatgctgggt 1740

ccaccgacaa attcctgctc tactcctcaa aagcaagcgc cctcccacac gaaaagaaca 1800

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tttcaagata tgttattgca gcgaataagg caggaagata gttcggatgt cacagattcg 1920

acggattctc ctcctacaag taatggtaag cgaggcagga agaagaaagg taaagtcatg 1980

ctattcagca gcaatcatca agccttgggt tag 2013

<210> 498
<211> 390
<212> DNA
<213> Saccharomyces cerevisiae

<400> 498

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atagcactat tgtttgcatt actcatcgct cgctgcacat gccacacaaa aaacacccac 180

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acaccgcaac ggcgaaaaaa tggcgcaatt attcaccgtg tagtcattta ccacggccgg 360

gaaagcgcga atgggatcag caaacaataa 390

<210> 499
<211> 1848
<212> DNA
<213> Saccharomyces cerevisiae

<400> 499

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gcatttgtac gttgtttgga cgatggagac agtaaagtac ctccagtagt acaatttact 180

ggtcatggct cttcggtagt cacaacggta aagttctctc caattaaggg ttcccagtac 240

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caacgcatca atgcttgtca tttgaagcaa tctagaccta tgagatctat gacagttgga 540

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gcagtactaa caaatgatga tgatttgttg atattacagt cttttacggg cgatataatc 1320

aagagtgtaa gactgaactc accaggctct gccgttagct tgagccaaaa ttacgttgca 1380

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<210> 500
<211> 1770
<212> DNA
<213> Saccharomyces cerevisiae

<400> 500

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atagccatac atggttacct cagaaatacc ccatggtaca acatgttgaa ggattatttg 180

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aatgggatac ctcaggatga tgttattgaa gagctaaata aattgaacga cttgatacca 480

catacccaat ggaaggaagg aaaggtctct ggtgccgttt accacggtgg tgatgatttg 540

atccacttac aaacaatcgc atacgaaaaa tattgcgttg ccaatcaatt acatcccgat 600

gtctttcctg ccgtacgtaa aatggaatcc gaagtggttt ctatggtttt aagaatgttt 660

aatgcccctt ctgatacagg ttgtggtacc acaacttcag gtggtacaga atccttgctt 720

ttagcatgtc tgagcgctaa aatgtatgcc cttcatcatc gtggaatcac cgaaccagaa 780

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aaattcatca ataagaacac aattttactg gtcggttccg ctccaaactt tcctcatggt 960

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tcaaattcta aaccatcccc agacggaact agcgctctat atggtgtcgc cgggagcgtt 1680

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<210> 501
<211> 1677
<212> DNA
<213> Saccharomyces cerevisiae

<400> 501

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<213> Saccharomyces cerevisiae

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gctaaagaac caagccctaa gccttctcac aagaggaacc aaagtaacag cagcatttct 2700

tctgcatggt ccaagtttaa gcacaagtct gcatcatcac ctgctaatgc ggacacggat 2760

attcaagatt catcaactcc atcaactagt ccaagcggta gaagaatgtc aaaactgttg 2820

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<210> 507
<211> 1632
<212> DNA
<213> Saccharomyces cerev.siae

<400> 507

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gtgggtcact tccagaccat gttcacaaat cctaattctc cattgtacgg agctgttttc 180

agacaagata cagtggcgat atccatgcgt aatgggctgg aatttatcgt cgctttcctc 240

ggtgctacta tggacgctaa aattggcgcg cccttgaatc ccaattataa ggaaaaggag 300

ttcaattttt atttgaatga cctgaaatct aaggcgattt gcgtcccaaa gggtaccaca 360

aagttacaga gttctgaaat tctaaaatct gcctccacgt ttggatgttt tatcgtagag 420

ctggccttcg atgcgaccag gtttagggta gagtatgata tatactctcc agaggacaac 480

tacaaaaggg ttatttaccg gtctttgaac aacgccaaat ttgtcaacac aaatcccgtt 540

aaattccctg ggtttgcccg ttccagtgac gttgccctga ttttgcatac cagtggtacc 600

acctccactc caaaaacggt gcctttgtta catttgaaca ttgtgagaag cacgttgaac 660

attgctaaca cttacaagct aacgcccttg gacagatctt atgtcgtgat gcctcttttc 720

cacgtccatg ggttaattgg tgttttactt tccactttta gaactcaggg ttctgttgtg 780

gttcccgatg gattccatcc aaagttattc tgggaccaat ttgttaagta caactgtaat 840

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ccacaaggag tcaccgtcgt cattctagat gacaatgaca atgtcttgcc cccgggcaaa 1140

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gaagccgttg catttggtgt tcccgacgat atgtacggcc aagtagttca agccgccatt 1440

gttttgaaga agggagaaaa aatgacctac gaagaactgg tgaacttctt aaagaagcac 1500

ctagcctctt tcaaaattcc aaccaaggtg tactttgttg ataagctacc aaaaaccgct 1560

acaggtaaaa tccagagaag agttatcgca gaaacttttg ctaagagcag cagaaataag 1620

agtaagttgt ag 1632

<210> 508
<211> 1383
<212> DNA
<213> Saccharomyces cerevisiae

<400> 508

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aatggtgtct gcgtcgtaga ttttttaaca ctcactccga aggaattggc aaggctaata 180

caaaggtcga taaatgaggt tttcagattt cagcaattgc ttgttcatga atataatgaa 240

aagtacttag aaatctgtga aaaaaactct atcagcccag ataacggtcc tgagtgtttc 300

acgactgctg atgtagctat ggatgaatta ttaggtggag gcatattcac gcatggcatt 360

acagaaatat tcggagagag ctctactggt aaatctcaat tacttatgca gttggcgtta 420

agtgtccaac tttccgaacc tgcgggaggg cttggcggca aatgtgtata tattaccact 480

gagggcgatt taccaactca gagattggaa agtatgctat cgtctaggcc ggcttatgaa 540

aaactaggta ttacacaatc aaatattttc accgtcagct gtaacgacct aataaatcag 600

gaacacataa tcaatgttca gttgcctatt ttattagaga gatctaaggg ttcaataaaa 660

ttggtgataa tagattcgat ttctcatcat ttgagggtgg agcttcagaa caagtccttc 720

agagaatccc aagaaaataa aaactatctg gataggatgg cagagaagct ccaaatactg 780

gcccacgatt attcattatc cgttgtggtg gctaatcaag ttggggataa accactggct 840

aacagtccag tggcacatag gacatatgta actgattatg attatcagct agggtggcta 900

gttggctgga agaactcaac cattctttat cggcagatga attcgctgct tggagcaagt 960

tccaataacg atgaaattct atcagacgat gaagattata tgctaatcga gagagttatg 1020

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aataaaaccg ttgagcgaaa ttcatcaagt cctatcagtc gacaaagtaa gaaacggaaa 1140

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aagggaggtg attcggcaag cttctggcaa gttaagagga caatgaaagt ggtatattcc 1320

acattcgcta agcctggtca aattgcatat caaattacta agcgaggaat agaaacagcc 1380

tga 1383

<210> 509
<211> 1314
<212> DNA
<213> Saccharomyces cerevisiae

<400> 509

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gaagtcgaat taaccaccga aaagggtgtt ttcagatcca ttgttccatc tggtgcctcc 120

accggtgtcc acgaagcttt ggaaatgaga gatgaagaca aatccaagtg gatgggtaag 180

ggtgttatga acgctgtcaa caacgtcaac aacgtcattg ctgctgcttt cgtcaaggcc 240

aacctagatg ttaaggacca aaaggccgtc gatgacttct tgttgtcttt ggatggtacc 300

gccaacaagt ccaagttggg tgctaacgct atcttgggtg tctccatggc cgctgctaga 360

gccgctgctg ctgaaaagaa cgtcccattg taccaacatt tggctgactt gtctaagtcc 420

aagacctctc catacgtttt gccagttcca ttcttgaacg ttttgaacgg tggttcccac 480

gctggtggtg ctttggcttt gcaagaattc atgattgctc caactggtgc taagaccttc 540

gctgaagcca tgagaattgg ttccgaagtt taccacaact tgaagtcttt gaccaagaag 600

agatacggtg cttctgccgg taacgtcggt gacgaaggtg gtgttgctcc aaacattcaa 660

accgctgaag aagctttgga cttgattgtt gacgctatca aggctgctgg tcacgacggt 720

aaggtcaaga tcggtttgga ctgtgcttcc tctgaattct tcaaggacgg taagtacgac 780

ttggacttca agaacccaga atctgacaaa tccaagtggt tgactggtgt cgaattagct 840

gacatgtacc actccttgat gaagagatac ccaattgtct ccatcgaaga tccatttgct 900

gaagatgact gggaagcttg gtctcacttc ttcaagaccg ctggtatcca aattgttgct 960

gatgacttga ctgtcaccaa cccagctaga attgctaccg ccatcgaaaa gaaggctgct 1020

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ccagctagat ccgaaagatt ggctaagttg aaccaattgt tgagaatcga agaagaattg 1260

ggtgacaagg ctgtctacgc cggtgaaaac ttccaccacg gtgacaagtt gtaa 1314

<210> 510
<211> 1350
<212> DNA
<213> Saccharomyces cerevisiae

<400> 510

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ggtgacgtcc aacctttgaa aggcgcccgt attgctggtt gtttgcacat gaccattcaa 180

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aacatctatt cgactcaaga tcatgccgcc gctgctattg ccgcttccgg tgttccagtt 300

tttgcctgga agggtgaaac tgaagaagag tatttgtggt gtattgaaca acaattgttt 360

gccttcaagg acaacaagaa attgaacttg atcttagatg atggtggtga tttaaccact 420

ttagttcatg aaaagcaccc tgaaatgctg gaagactgct ttggtctttc cgaagaaact 480

accaccggtg ttcaccactt atacagaatg gtcaaagaag gcaagttaaa ggttcctgcc 540

attaacgtta acgactccgt cactaagtcc aagtttgaca acttgtacgg ctgtagagaa 600

tccttagtcg acggtattaa gagagccact gatgtcatgt tggctggtaa ggttgccgtt 660

gttgctggtt acggtgatgt cggtaagggt tgtgctgctg ccttaagagg aatgggtgct 720

cgtgtcttgg ttaccgaaat tgacccaatc aacgctttac aagctgccat ggaaggctac 780

caagttgtta ccatggaaga tgcatcccac attggtcaag ttttcgttac caccactggt 840

tgtagagata ttatcaacgg tgaacatttc atcaacatgc cagaagatgc cattgtttgt 900

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cacgttttgc caaagatctt ggatgaagct gtcgctaagt tccacttggg caacttgggt 1260

gttagattga ctaaattgag taaagtccaa tctgaatact tgggtattcc agaagaaggt 1320

ccattcaagg ccgaccacta cagatattga 1350

<210> 511
<211> 378
<212> DNA
<213> Saccharomyces cerevisiae

<400> 511

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gcagcttggt ggacatgttg cgtgacagtc acagcaactg gggcagataa agcgacagat 120

gcagatgcgg ccagtagtga gactttagaa aatttcatct ttgtaagttt tattaaagga 180

atggtattgt tttatgatgg gctgtttcga ggaacgatga taccaagagc caacagatcc 240

atcacagcaa tatgtaacac tctgcgacaa gcatatatat atacaaagat ccaaagcatt 300

gcctttgaac gacgtctatg tttccaaaac attacatata gagaagtgcg tgagatacac 360

gaaatgtact gtaaatag 378

<210> 512
<211> 1026
<212> DNA
<213> Saccharomyces cerevisiae

<400> 512

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caagaatttc aacttgtctc cgctgcaaat ttgccctctt tatcaagtag tacaaaggca 120

gcagatagtt ctagtaaagg cagctcttca gccaagacaa ccacgtcctt aggcaaaagc 180

tcagtaacca gtaaggatgt ttcgtcaagt cataatgtca cttcaagcac taaaatgccc 240

aaaatcacca cgagcgctag tacaagctta tacaccaact ctagtttatg gagcaacaac 300

agtgtaatat caacttcatc tattacacct tccagcgttt atatcccggt tacggacgga 360

aataaattct tatatcaggc tcatcatcct aacggtactg tgttcattgc atttgctggc 420

tgtttaggtg caattctact atcactgacg ggtgcatgga ttgcattgaa tataaagtca 480

tggcgaagtg ctagaaagga aaataagctg agaaatctag aaaatcaata ccaacacgat 540

cctttctact tccaaacaaa cattaatgac gacgaaagtg aaacatcttc ccattctgac 600

gacagtgaca tatcagaaaa agttctgaaa aataactcat ctcgtatgag tttgtatact 660

ctaggatcca cttctgtttt gaatcttttg aacaataaaa cagatgccaa cgataacttc 720

agatcatcta tgtttatttc acccaccgaa attctgcaat ctgatgccaa caactctaat 780

acatggtctc aaagcaatga gagtgctata tatgattcct tgtccagtac tccaagggaa 840

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tcatacaatt taagtcccga ctctgaagac cgctctactc caaaatcaaa tgttagtcag 960

ggtaaagtaa agaagtaccg tcctcccagt gttcatctgg atcaactgct cgacggtaag 1020

gaataa 1026

<210> 513
<211> 1356
<212> DNA
<213> Saccharomyces cerevisiae

<400> 513

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gttttagata caaaatatga agcatttgta gtcggattat cggcaagaat gcatgctgta 120

gcccatcctt acggttcatt gcaagggtct gataagtttg aagtgcgtgt gaaaagtaaa 180

caatttaaag atggggagtg gctgtaccat ataagtccta aaagtggctt cattcctgtt 240

tcgataggcg gatctaagaa ccctttcatt gaaaaagtta tcgctaacgt atttagctac 300

tttaaaccta acatggacga ctactgcaat agaaacttgt tcgttattga tattttctct 360

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ccttcgggat taactttatg gatgggcgat attaagaatg gttcagaaac agtaaaactg 840

gtccagaagg taaaaaattg gtatgattcg catatgccag aaagcttgaa aatatataca 900

gaactcgatc atgcaaattc tagatttatg gatggactat ctaaactaga tcgcttacac 960

gagactcatg acgattacag cgatcagata tttgagtctc ttgagaggaa tgactgtacc 1020

tgtcaaaagt atcctgaaat cacagaagtt agagatgcag ttgccacaat tagacgttcc 1080

tttagaaaaa taactaaaga atctggtgcc gatatcgaac ctcccgtaca aactagctta 1140

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tatgacgcca ttgcagtgat tactaagcaa gatgttgatc ttagggctca aaccgctaat 1260

gacaaaagat tttctaaggt tcaatggctg gatgtaactc aggctgactg gggtgttagg 1320

aaagaaaaag atccggaaac ttatcttgat aaataa 1356

<210> 514
<211> 1686
<212> DNA
<213> Saccharomyces cerevisiae

<400> 514

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gacatacaaa aagaaaatga atatggtaca ctagattctc cggggcattt gtatcaagtc 120

aagtcacgtc atgggaagcc actacctgag cccgttgtcg acacccctcc ttattacatt 180

tctttgttaa catatctaaa ttatttgatt ctgattatat taggtcatgt tcacgacttc 240

ttaggtatga ccttccaaaa aaacaaacat ctggatcttt tagagcatga tgggttagca 300

ccttggtttt caaatttcga gagtttttat gtcaggagaa ttaaaatgag aattgatgat 360

tgcttttcta gaccaactac tggtgttcct ggtagattta ttcgttgtat tgatagaatt 420

tctcataata taaatgagta ttttacctac tcaggcgcag tgtatccatg catgaactta 480

tcatcatata actatttagg cttcgcacaa agtaagggtc aatgtaccga tgccgccttg 540

gaatctgtcg ataaatattc tattcaatct ggtggtccaa gagctcaaat cggtaccaca 600

gatttgcaca ttaaagcaga gaaattagtt gctagattta tcggtaagga ggatgccctc 660

gtttttcga tgggttatgg tacaaatgca aacttgttca acgctttcct cgataaaaag 720

tgtttagtta tctctgacga attgaaccac acctctatta gaacaggtgt taggctttct 780

ggtgctgctg tgcgaacttt caagcatggt gatatggtgg gtttagaaaa gcttatcaga 840

gaacagatag tacttggtca accaaaaaca aatcgtccat ggaagaaaat tttaatttgc 900

gcagaagggt tgttttccat ggaaggtact ttgtgtaact tgccaaaatt ggttgaattg 960

aagaagaaat ataaatgtta cttgtttatc gatgaagccc attctatagg cgctatgggc 1020

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aaattgaatt tgaaatcaaa ttccggcaaa tccagttacg acggtaaacg tcaaagatgg 1620

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aattga 1686

<210> 515
<211> 1989
<212> DNA
<213> Saccharomyces cerevisiae

<400> 515

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atcagtatcc caagagattt ctcatcatca cctacatatt ctcctaagaa tacagtactt 180

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accaaagtgg aggatgaaga atttatccca atattaatgg agtttaaaga aatcgacact 480

tgcattaaga caagtgccaa gacacagttt gatcttaacc aagcgtttta tctttgccaa 540

agggctataa cacacccaat atcaccttta tttgatgcca tggtaggtga actaaagcca 600

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aacgaactga attttattaa agatttgctt ttggatattt ccaagcacga tcaagagtac 780

attaaccgca agctatacgt accgggaaaa ggcatcacca aagatggttt ccttgtactg 840

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aaaagctctt tgctagaggc cttcttgggc agatctttct cggaggagta ttctccgaca 1440

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attttgcaag aacttggaga acaggaatac gccatactag agaataagga taagttaaaa 1560

gaatgtgacg taatctgtct aacatacgat tccagcgacc cagaatcatt ctcctactta 1620

gtttcgcttc tagacaaatt cacacattta caagatctac cgttggtatt tgtagcttct 1680

aaggcagatt tggataagca gcaacaaagg tgtcaaatcc aaccagatga actggcagac 1740

gagctatttg tgaaccaccc actgcacata tcatccagat ggctaagttc ccttaatgaa 1800

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gaagaaacag cagcaaaaga tgtcgactac agacaaacgg ctctcatttt tgggtccact 1920

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<210> 516
<211> 2004
<212> DNA

<213> Saccharomyces cerevisiae

<400> 516

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acggaagtgc ggtcattcta cgaagacgaa aagtctggtc taatcaaagt ggtaaaattc 180

agaactggtg caatggatag gaaaaggtct tttgaaaaaa ttgtcgtttc cgtcatggtc 240

gggaaaaatg tacaaaagtt cctgacgttt gttgaagacg aaccagattt ccagggcgga 300

ccaatccctt caaagtatct tattcccaag aaaatcaact tgatggtcta cacgttgttt 360

caagtgcata ctttgaaatt caatagaaag gattacgata ccctttctct tttttacctc 420

aacagaggat actataatga gttgagtttc cgtgtcctgg aacgttgtta cgaaatagcg 480

agtgccaggc cgaacgacag ctctacgatg cgtactttca ctgactttgt ttctggcaca 540

cctattgtaa ggagtcttca gaaaagcacc ataaggaaat atggatacaa tttggcaccc 600

tacatgttct tgttactaca cgtagatgag ctatcgattt tttctgcata ccaagcaagt 660

ttacctggcg aaaagaaagt cgacacagag cggctgaagc gtgatctatg cccacgtaaa 720

cccactgaga taaagtactt ttcacagata tgtaacgata tgatgaacaa aaaggaccga 780

ttgggtgatg ttttagctac agcgcaacgt atacgtcgac gatacaacaa gaacggttca 840

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gcaggtgagg cggcgagttc agatcatgat caaaaaattt caagagtaac gcgaaaaagg 1020

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tcgaaggcca ttgtagttgc aagcacaacc aacgaagtgg aagaattggc ctgctcttgg 1920

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<210> 517
<211> 1152
<212> DNA
<213> Saccharomyces cerevisiae

<400> 517

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catgatacct taggtgccga tgaaggtaat gctttactcg atcaaatttt ggctgacacg 180

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cacatctcac aactgccagt tatggtcttc atttcttgca ccggttatgt cgtaacatat 780

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<211> 2424
<212> DNA
<213> Saccharomyces cerevisiae

<400> 518

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aatagccata tggggagagg tatatggaat ccatcgtacg taaatcaagg ctctcaaagg 180

tctccacagc agcagcatca gaatcatcac cagcagcagc agcagcagca acaacaacaa 240

caacagaatt ctcaattttg ctttgttaac ccttggaatg aggaaaaagt aactaattct 300

caacaaaacc tggtgtatcc ccctcaatac gatgacttaa acagtaacga aagtctagat 360

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<210> 519
<211> 2460
<212> DNA
<213> Saccharomyces cerevisiae

<400> 519

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gttagaaata taggaattat agcccatatc gatgcaggta aaactaccac aacagagagg 180

atgctttatt atgcaggaat ctcaaagcat attggagacg tcgacactgg cgatacgata 240

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ttgataaata aatttatgag aggaacaact accaaaccgg tgttggtaaa cattccttac 600

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<210> 520
<211> 1764
<212> DNA
<213> Saccharomyces cerevisiae

<400> 520

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agagagtact tgctcgaaga attaggtgaa gcacccgtcg atttgatgag aaagattaag 1680

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<210> 521
<211> 1626
<212> DNA
<213> Saccharomyces cerevisiae

<400> 521

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ctttcggacg tccggactgg tttgatcgtt ggtatcttca atattggttg tgcctttggt 360

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gaataa 1626

<210> 522
<211> 2832
<212> DNA
<213> Saccharomyces cerevisiae

<400> 522

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aaggactcca atatcattgt atgggatctt gttggagaag ttggtcttta taaacttaga 480

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<210> 523
<211> 1152
<212> DNA

<213> Saccharomyces cerevisiae

<400> 523

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atcacttgta aatcatctag cttgacgcct gccggtataa tcgagtccat tccggttgtc 180

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<400> 526

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cccagtccta acctatctaa aaggtcttct gattgttcga agaggcctag aattaggtgt 180

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<211> 4434
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<213> Saccharomyces cerevisiae

<400> 527

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acatcgtctt cttgggatga caaatctttg ctgcctacag gtgaatatat tgtggacaga 180

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<213> Saccharomyces cerevisiae

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ggtgccgagg tgccttga 318

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<211> 1818
<212> DNA
<213> Saccharomyces cerevisiae

<400> 529

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<213> Saccharomyces cerevisiae

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<211> 1764
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<213> Saccharomyces cerevisiae

<400> 534

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<213> Saccharomyces cerevisiae

<400> 536

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<211> 630
<212> DNA

<213> Saccharomyces cerevisiae

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<213> Saccharomyces cerevisiae

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<213> Saccharomyces cerevisiae

<400> 543

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ggagataaca gacggggaga actggatagt gcgcaagcac tgcggcaggt gcatgactgg 240

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attgtggatg ctgatggccg tgtatggcag agaggaggcg gttgctacga gttcactcag 360

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tttgtggtgg tgcaaggcac ccgagtatac ggctggggca gcaacacaaa gtgtcaattg 480

caagagccca aatcccgatc actgaaagag cccgtattgg tgtacgatac cgggtctgtg 540

gccgtagact acgtggccat gggcaaggac ttcatggtca tagtggacga gggcggccgc 600

atagtgcacg catccggtcg cctgcccact gggttcgagc tcaaacaaca gcaaaaaaga 660

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<211> 2595
<212> DNA
<213> Saccharomyces cerevisiae

<400> 545

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agagattatg tgcacattaa gaaactagag atgaatacag ttcttgggcc tgattcctgg 240

aatcaattaa tgcctcagaa atgtctacta agcttagata tgggtacaga ttttagtaaa 300

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ccagaatcac aggaatttga cgttgttagg atatctgagt taaaaatgtt gactttgatt 600

ggtgttttca cctttgagag acttaagaaa cagtatgtaa ctttggatat aaagttgcct 660

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aaattaaacg caatcacagc cacagaaggt gttggtgtaa gctgtattag agagcccagg 900

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caaagagact ttgctactgg agcggtggta gcgtcgtgta ttggtttcgg cagcgacatg 2520

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<210> 546
<211> 2832
<212> DNA
<213> Saccharomyces cerevisiae

<400> 546

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atttcaagga acgggaatga cagcaatatt aacatccagc cttcttccgt gccgcagcag 180

cagcagcagc agcagcaata ctaccgtaat ggcatgaatg aggctccaat acaagcgcca 240

cttcaacaac gtcaaattcc catgcagaat tattcacaac agcaacgcca gcaacaacag 300

tataattttg agtattccaa tccacatatg aatgagattc ccctcatgca gcataacttc 360

accaaaccat cactaagcaa taatcgcgat aatgttaatg gtaagaaagc ttcctcattt 420

acccagagct cattttccaa ttttttcaaa cataagcatc aatttgggaa gtcaaagaaa 480

aacactaagg ggacaggagg tggtggagat ggtgatgatg acgatgaggt tatcttggat 540

gattctgcaa actccgacct aacattcaat gacattcaga ccttcggtca caagggcggt 600

gacaaatatg gatatggtgg tgattccact cctatcattc caacattggt gactaaagac 660

cgcggcaata tgagtaatac tgagtatagg aagtacatta ctaatcaaag gaaaaccgca 720

atgaatgcca tggctaaaca aactaaaaat ggtacattag cctcgttgcc tccgagagca 780

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ggacctcccg gacaatttcg acagccgcag caacaaagaa tgctaccgat gaacaactac 960

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cggccattcg caggtcatca gcagatatca caaagacaac aacaacaaca acaacaactt 1140

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gagcagttat tactccaaga aaatggcacc aaaccaagtt ctatggaact agtaggaaga 2760

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cgtttacagt ag 2832

<210> 547

<211> 2433
<212> DNA
<213> Saccharomyces cerevisiae

<400> 547

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tctactagcg gtaagaagag aaacaagctt ataaaatctt gtggcttttg cagaaggaga 180

aaacttcgtt gtgatcagca aaaacctatg tgttctacat gcatttctag aaacttaaca 240

acctgtcaat atgctgaaga attcaacaaa aacatcgaaa agaaagctac ctatggtccc 300

tatcctaacg ccgatttact taagaaagtt gaagaactag aaaacaaaat acgtattcta 360

gaagctgaaa aaaacactaa ttcgtctgcg agctccatgt acacttcgcc aaatttccct 420

cctttaggca ctagtgtagg tagaggttct actgaaactt catctccatt acccgatggt 480

gtaataaatc catatgccga ccggtactac ctacaaagta aacattccgg aagatcaaca 540

ctatacggcc ccacttctat gagaacccaa attgcaaata gtaattgggg gttcattgaa 600

aaatataaac aattatgggc gaaggttaaa gtagaaagaa ataaatggaa gcaaaacaac 660

caaaaaacga tgtgcaggga actaggcctt ttggatgagt cggattggca gccagatcca 720

ttaatcaaac agatatgtcg tttcctacca tcatataaca aagctttgtc tattttagat 780

gatttcttta atgatggagc atgcaatgag atcaacgtga ttcttgataa ggcaaaagtt 840

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tccatagttt atattttatc caatccaaag aaaaattatt acaaagctgc tgtgatacta 960

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caagaactag atccgcagag cgataatcca tcatcagaag ctaaaattgt gagtgatagg 2220

cagcgggatc tcagccttgc agttccaacg cccacgccct caataattcc aatgttaccc 2280

tcgcctggtg aaactaagaa ccatgcaaag agtcaatcag agatcattca gatgctgaca 2340

gatgaatttt gggcaaatta taactcaggc tgggaagagt tgattaatca atctgaattt 2400

tccactcttt tcgatgatta caaagacaat taa 2433

<210> 548
<211> 2376
<212> DNA
<213> Saccharomyces cerevisiae

<400> 548

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agctctagtg gtactacact aaaattaata gctcttaata tcaagtccat atcagatgaa 180

gatgtgggat atatccaaaa tgttgaaaga ctgtctttaa ggaaaaatca cttaacatcc 240

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caagtacaga gttatactcc atttcatacg ggcatcccca aagaagaata ttgggcaatt 600

gcgatatcac gatatctaaa agatcatcct aacctaccta ctccagaacc taaaatatct 660

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aacaatataa tttcacttgc cccaagtgca aatacaacta taagtgcatc tactgcaatg 780

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ctagccaact tggcgaagat taccaaggat gtcactgtga tattggactt gagttcatac 2340

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<210> 549
<211> 1197
<212> DNA
<213> Saccharomyces cerevisiae

<400> 549

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aaggttccag aattggatgc atccaaggat tttgacgaaa ttatttttgg taacgttctt 180

tctgccaatt tgggccaagc tccggccaga caagttgctt tggctgccgg tttgagtaat 240

catatcgttg caagcacagt taacaaggtc tgtgcatccg ctatgaaggc aatcattttg 300

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atgactaacg caccatacta catgccagca gcccgtgcgg gtgccaaatt tggccaaact 420

gttcttgttg atggtgtcga aagagatggg ttgaacgatg cgtacgatgg tctagccatg 480

ggtgtacacg cagaaaagtg tgcccgtgat tgggatatta ctagagaaca acaagacaat 540

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gaaattgtac ctgttaccat taagggattt agaggtaagc ctgatactca agtcacgaag 660

gacgaggaac ctgctagatt acacgttgaa aaattgagat ctgcaaggac tgttttccaa 720

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gctagagtgg ttgttacact gctatccatc ttacagcaag aaggaggtaa gatcggtgtt 1140

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<210> 550
<211> 846
<212> DNA
<213> Saccharomyces cerevisiae

<400> 550

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tgtgcacgct atgctatgtc aatcgggtat cttgccagag aatattcgtt tattttgtct 540

actaacaaca ggcaatgcgc aactgcttca ttttttcaaa acgttaaccg ctatttgcaa 600

gtgggaacta aagccacttt acaatcgaag acaagttcta atatgaacat tgaatttgtt 660

accagatacg taccagattc tatttcgcaa gttaaggcaa aaattgcaga ttcaggcctg 720

actacattgt cgtacaagcg aaatttgaat aaagatattt ctttgggtgt gggtatgtct 780

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<211> 1176
<212> DNA
<213> Saccharomyces cerevisiae

<400> 551

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gcggaagaac gtgccagcgt tgctacacca ttaaaggaca ttatgattgg tgatgaggca 180

agtgaagttc gctcttatct gcaaatatct tatcctatgg aaaacggtat tattaagaat 240

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acctccaacg gtaagatttt actaacggaa cctccaatga atccgctgaa aaatagggaa 360

aaaatgtgtg aggtaatgtt cgaaaaatac gattttggcg gagtttatgt tgccatccaa 420

gctgttctag cattgtacgc acaaggtttg tcttcaggag tcgtcgtcga ttccggtgac 480

ggtgttactc atatagtccc agtttacgaa tctgtcgttt tgagccactt aacaagaaga 540

ttagatgttg cgggtagaga cgttactagg catttgattg atctgctttc tcgtcgtggt 600

tatgcattta acagaactgc agatttcgaa actgtgcgtc agataaagga aaaattatgt 660

tatgtttcat atgatttaga cctagataca aaattggcta gagaaacaac cgcccttgtg 720

gaatcgtatg agttaccaga tggcaggaca atcaaagtgg gacaagagag atttgaagca 780

ccagaatgtt tgttccaacc tggtttggtt gacgttgaac aacctggcgt gggcgagctg 840

ttatttaata ctgtgcaatc ggctgatgtt gatatcagaa gttccctgta taaggccatt 900

gttctttcag gtggttcaag tatgtaccca gggctgcctt cgagattaga gaaagaattg 960

aaacaattat ggtttagtag agttttacac aatgaccctt caagacttga taaattcaaa 1020

gttagaattg aagatcctcc aaggagaaag catatggttt tcattggtgg tgccgtttta 1080

gctagtatca tggctgataa agaccacatg tggttgtcta agcaagaatg gcaagaaagc 1140

gggccatctg caatgactaa atttggtcca agatag 1176

<210> 552
<211> 1587
<212> DNA
<213> Saccharomyces cerevisiae

<400> 552

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cgcaaagcca acatcatcgc tgcacgttct gttgcagatg ccatccgtac ttcattgggt 120

cccaagggta tggacaagat gattaagaca tctcgtggag aaatcatcat ctctaatgat 180

ggccacacca ttctaaaaca gatggccatt ctgcatccgg tggccagaat gctagtagag 240

gtttctgccg cgcaggactc ggaagccggt gatggtacca cttctgtggt gatcttgacc 300

ggagctctat tgggtgctgc tgagaggctg ttaaacaagg gcatccatcc aaccatcatt 360

gcggactcct ttcaaagtgc tgcgaagaga tctgtcgata ttcttttaga aatgtgccat 420

aaggtttcgt tgagcgatag agaacagctg gttcgtgctg catccacttc tttgagttcc 480

aagattgtgt ctcaatactc ttcgtttttg gcgcccttgg cagtggactc cgtattgaag 540

atatctgatg aaaactctaa gaatgttgac ctgaacgata tcagactggt caaaaaagtt 600

ggtggtacca ttgatgacac agaaatgata gatggtgtgg tcttgacaca aacggcaatc 660

aaatctgctg gtggtccgac aagaaaggaa aaagcaaaga ttgggttaat tcaattccaa 720

atatctcctc caaagcccga cacagaaaat aatatcatcg ttaatgacta tagacaaatg 780

gataagatcc ttaaagaaga aagagcgtat ttgctaaata tctgtaaaaa aattaaaaag 840

gccaagtgta acgtgctgtt gattcagaaa tccatcttga gagatgcggt aaatgatttg 900

gctcttcatt tcttgtcaaa attgaacata atggtggtaa aggatatcga gagagaagaa 960

atcgagtttc tgtcgaaggg cttgggttgt aagccaattg ctgatataga attgttcacc 1020

gaagatagat tgggttccgc tgatttagtt gaggagatcg atagcgatgg ttccaagata 1080

gttagagtaa ctggtataag aaacaataat gcaagaccaa ccgtctctgt tgttattcgt 1140

ggtgcaaaca acatgatcat tgatgaaaca gagcgttccc tccatgatgc actatgtgtt 1200

attcgttgtc tagtgaaaga gagaggttta atcgctggtg gtggtgctcc agaaattgaa 1260

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caagaatttg cctctgcttt ggaagttatt ccaacgactt tggctgaaaa cgcaggtttg 1380

aatagtatca aagttgtcac agaattgcgc tctaagcatg aaaatggtga attgaatgac 1440

ggtatctctg ttagacgatc tggtactacg aacacctatg aagaacacat cttacaaccc 1500

gtacttgtta gtacaagtgc aattacctta gcgtctgaat gtgttaaatc catcttacgt 1560

attgatgata ttgcattcag ccgttaa 1587

<210> 553
<211> 630
<212> DNA
<213> Saccharomyces cerevisiae

<400> 553

atgatatcac catcaaaaaa gagaaccatt ttatcaagca agaatataaa ccaaaaacca 60

cgagcagtgg taaaaggcaa tgaacttcgt tcaccatcaa agagaaggtc acaaatagac 120

acagactatg cactaaggcg aagtccaata aagacaatcc aaatttctaa agctgcacaa 180

tttatgctgt atgaggaaac ggctgaagaa agaaacatag ctgtccacag acataatgaa 240

atatacaata ataacaattc tgtgagcaat gagaataatc cttcccaagt aaaagaaaac 300

ctttcacccg ctaaaatttg cccttatgaa agagcatttt taagggaagg aggaagaatt 360

gcattgaagg acttaagtgt tgacgaattc aaaggttaca tacaggatcc tctcaccgat 420

gagactatac cactgacgtt gccactgggt gataaaaaaa tcagcctacc cagttttata 480

acgccgccaa gaaattcgaa gatatctatt ttcttcacta gtaaacacca aggacagaac 540

ccagagacaa agatatcccg ttctaccgat gacgtcagtg aaaaaaaagt agtgagaaaa 600

ctgtccttcc acgtctatga agatgagtaa 630

<210> 554
<211> 1671
<212> DNA
<213> Saccharomyces cerevisiae

<400> 554

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tcatttatac ttctaagttt gctatgtcaa tctctgattg ggctggttaa tgctgatttt 120

aattatgaag gctgttacag tgccgcggat atccagtctg ctggactgtc tctgaaaaac 180

tcatacatat atcaatcagt gtcatactgt caaaaccagt gccctgagtc agcagtagta 240

gcattattta acgggtcaga ttgttactgc ggtaattcgg taagttttct gacttctttg 300

acgaaatcaa cagattcaaa ctgtggaact aaatgctctg gctggcctta ccaaatgtgt 360

ggagggtcat cgtacatgaa cgtgtatgta aatgctgaaa cttttgtttc atcggttgaa 420

tcttcctctt ccaaagaagg gtctagcact tcctatatgc cctcaacaac ttcttcattg 480

tcctccgccc aaatttcttc aactactagg agaacgtcaa cagatatgaa aagttctgaa 540

atgatagcca cgacagtttc taccacttca acaacctctt cctcgacttc ctctactacc 600

tcttctacca cctcttctac cacctcttct accacctctt ctactacctc ttcctcgact 660

tcctctacta cctcttctac cacctcttct accacctctt ctaccacctc ttctaccacc 720

tcttctacta cctcttctac tacctcctct actacctcct ctactacctc tatcttttct 780

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gaaacaatat ttgttacgag gacatccgtg gttgaacgat cttctgaggt agctactgct 1080

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ttgttcctga tatggaggag acggaaatcg cacgaccaat tagacttgga ggaaacgaaa 1260

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tctggtacga caaattggat gagacattca aggggtaata cagcgggttc tatcggtaca 1380

agtaatatgt atggtttttc tatgagtaat ggtgcaaatt atagtagtcc tagttcaaac 1440

accagtggaa gcatcataaa caacttggct ggcttacaag atgctacggt tcagaaacag 1500

aaccttccat cgacagtttt tgaagaggca aatactttga atagtgcaaa tgaaaggttc 1560

agtgccaatt ctttacccga catgatgatg agcggaccat tgcaagtggt aaaccctgat 1620

aatcctgata atcctgaatt atctagtacc gtatctcata atcgagcctg a 1671

<210> 555
<211> 981
<212> DNA
<213> Saccharomyces cerevisiae

<400> 555

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cttctgctta atcacacatg tttaagagtc aaggatccag caaggaccgt taagttctac 120

accgaacact tcggtatgaa gctattaagc agaaaggatt ttgaagaagc aaaatttagc 180

ttgtactttt taagctttcc aaaagacgac atacccaaaa ataagaatgg agagcctgat 240

gtttttagcg cacacggtgt cttagaacta actcacaatt ggggtactga aaaaaaccca 300

gactacaaga tcaacaacgg gaatgaggaa cctcatcgtg gatttgggca catctgtttt 360

tctgtatccg atatcaataa aacctgcgaa gagctagaat ctcagggtgt caaattcaag 420

aagagactct ctgaaggaag acagaaggac attgcgtttg ctttaggccc tgatggatac 480

tggattgagt tgatcacata ttctagagag ggtcaggaat acccaaaggg ctcagtaggt 540

aacaagttca atcataccat gattcgtatt aaaaacccaa cccggtcttt agaattctac 600

cagaatgtgt tgggcatgaa attattaaga actagtgagc acgaaagtgc aaaatttacg 660

ttatactttc ttggttatgg cgttccaaag accgacagcg ttttttcatg tgaaagtgtg 720

ttggagttaa ctcataattg gggaactgag aatgatccaa acttccacta tcataacggt 780

aactcagagc cccagggtta tggtcacatc tgcataagtt gtgatgacgc tggcgccctt 840

tgtaaagaaa ttgaagtgaa atacggcgat aagatccaat ggtctcctaa atttaaccaa 900

ggcagaatga agaatattgc ctttttgaag gatcctgatg gttattccat tgaagtcgtt 960

cctcatggtt tgattgccta a 981

<210> 556
<211> 2862
<212> DNA
<213> Saccharomyces cerevisiae

<400> 556

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caacaagtcg ttacttcttt ggtaagtaat ggtactattt ttggtgtttt tgtcatagcg 120

ttcttgattt tgcgtataaa actaaaaagg atttatgagc ccaaatcctc attcaatctg 180

attaatgaag aaaaaaagcc agaaccgcta ccgcagggcg tctggcaatg gctgaagccg 240

ttattgaaaa aatcagacaa ttttgtcatt caacaagccg gtctggatgg atatttcttt 300

ttgaggtacc ttttcatcat tgcaatttac tgtgctgttt ccatgagtta tatattccct 360

attttgttgt ccattaacgc cagtaacggt aaccatgaaa gcggattgaa tcaattggcc 420

tatcagaacg tcaagcaccg tggtagatat tttgcacatg ttttctgtgg atggattttc 480

ttttgggggt tcctttacat tatttacaga gaattgtatt tttacacctc tatgaagcaa 540

gctgtactag cgtcccctcg ttatgctaaa aaactatcct cgagaaccgt gttattccag 600

actgtcccta agcaatactt aagtgaagaa gagttttcta agttgtttga tggtgtgaaa 660

agagtctgga tcgcaagagg ttccggttca attgaagcaa tggtcaaagc aagggacaat 720

atggccatac aattggaagg tgctgaaaca aaatacctga aagcagcatt gaaaaaaatt 780

aagaagttaa acaaaaaaag tccgcaatta tctgtctctg ataatattgc tgaatatgtc 840

cctgacaaga aaagaccaca tcataaaatt aacaaggttg ctaaattctt ttttggtaaa 900

aaagttgaca ccatatccta cattaaggag gagttgccca agttaaacca aaaggtgaag 960

gcattacaag aagatcatga aaattcatcc cctttcaact ccgtttttgt ggagtttgaa 1020

tcccaatatc aggcccaagt tgccgctcag atcaccacat accatgctcc tcttttcatg 1080

acgcctgtgt atattggtat tgagccatcc gatgtcgttt ggtttaattt gaggatgttc 1140

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acttccacag taacggaaat tgttaaagag cccacgaagg ctatggatct actggcttct 1560

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tacaatttga cttatgtcta tcaggaatca cccgacgcaa ggggtattta ttatccaaga 1920

gctctttttcc aaactatagt tggtatctac atcggtcaga tatgtctatt aggtcttttt 1980

gccgttggta aaggttgggg cccaatcgtt ttacaggtaa ttggaatttg tgttaccgtc 2040

cttattcatt tacatttgag cgctgcattt gatcatttat caaaggttat acccgttgat 2100

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aaagaattac ctgaatttcc aataaagaaa tatcacaaga ggagtgaatc agtcactgag 2280

caacaagttg aaaatagcat atttagtgaa aatacattcg aatatcaatt caacccagca 2340

aatgaagcca atgcagatgg gcacgctata aatgcagaaa atttaattga ggacgtgcca 2400

ttattagcag atggtgatac aatgaaaatt cctccggctc catggtggaa gagattctta 2460

aaacctcaca tttactactc ctataaggct gtaaagagca gactgccaga aatatatggt 2520

ttggttgatc ctgatgaaag agtcaatgat ttcgatatct ctcatgctta cgattatcca 2580

gctgttagtg cacaatgccc cgaattgtgg attcctcgcg atccttttgg attttccaaa 2640

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gagaatttga aatttactct gcgtgacgta ccaccaccat ataatgatgt taaagacgaa 2760

gcaaatggtg aagcaaatgg cgaatttgac acagctagta aggaaaataa tccatttgcg 2820

gacccaaagt ataaggaaga agagagtcgt tcggcagtct aa 2862

<210> 557
<211> 1839
<212> DNA
<213> Saccharomyces cerevisiae

<400> 557

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gcttggtcaa tgaacgagac agatactact ctttgtcagg ttaggtttca gaaaagcttt 180

tttgaggagt atgagtttaa accacatgag attgtatttg gagaaaatgg ggttcaagtt 240

atagaagata cgtacggcaa tagtcataag ttatactcct tccgtgttaa tggaagacac 300

ctaacaacta tatcaagaaa gccggatggt gatggcatca aatcattcac aattgcggta 360

aacaacactt ctacctgtcc tgaatcactt gcaaatagat tgattgtggt gattgaaatg 420

gattcgttaa tagtcaaaga atactgtccc caattccagc caataaaata cgatcccata 480

ataatcaacc ttaagtacaa aaggaggttt ttggatgttt ttggaactgc tgcctccgat 540

cggaatccac aggagccctt ggaccctaag ctattggacg tttttacaaa tacagagcgt 600

gagctaacat cagccttatt taacgaagaa gtggaatcag acatacgtaa aaggaatcag 660

ttaacggctg ctgatgagat taattacatt tgttgtaatt caactttatt gaagaatttt 720

ttagacaact gcaatgttaa tgtaaccgat gaagtaaaat tggaaattaa cgtacatagg 780

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acaatcgaag atgaaaaaca agataagcga tcacatagta agcgtagaga gcatatgaaa 960

agtataatat tcaaattgaa ggacttcaaa aacttcataa cgataggtcc atcctggaag 1020

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gaggccggac tgaaagacaa caaagaaagc tgcgaaagtc cattaaaaag caaaactgct 1260

ttaaagagag aaaacctgcc acactctgtg gctggaactc gaaacagtcc tttgaaagtg 1320

tcgtatctga cccctgataa tggaagcaca gttgctaaga cctatagaaa taacacggca 1380

agaaaattat tcgtggaaga acaaagccaa agtacgaatt acgaacaaga taagcggttc 1440

cggcaggcta gttcagttca tatgaacatg aatcgggaac aaagttttga cattggtacg 1500

actcatgaag tggcctgtcc acgtaatgag agcaattctt taaaaagatc catagcagat 1560

atttgtaatg aaactgaaga ccccacccaa caatctacat ttgcaaaaag ggcagacacc 1620

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gatagaaaag gaatgctcaa gaaagaaaaa ttgaagcata tgcaaggtct gttgaattcc 1740

cagaatgaca caagtaatca caagaaacag gacaataaag agatggaaga tgggctgggt 1800

ctaacacaag tagaaaagcc aaggggtata tttgactaa 1839

<210> 558
<211> 771
<212> DNA
<213> Saccharomyces cerevisiae

<400> 558

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aaaaccgcta cttctttggg tcagtcccca gttgtcatca ccatttataa atcactgtta 180

aaatattgga gtctttacga gttcatacat tttatttacc tctatactcc tattgatgcc 240

tttctgaatt tcttaccatt tacctcttta cttatgtcgt ttggaagtat ttgcttgaca 300

agagagctgg tatatgactt cattgccttt atggaatctc aaaacaagct taccggattc 360

cttaataaga taacagaacc gaattttaac agttatttac tgttttcttc aatttataac 420

atttggtttg cagatgacac caatgacaaa ttcttattcg gtaaattaac tcagatttta 480

atatctgtaa caaaaaggta cgaatttcca agaacattct acttagcaaa agtttctgat 540

ttcctacaaa atctcattct aacgagattg agacccttg taacggagca accccaaggc 600

gacaaaaatc gctatcaaaa cggtgaccgt gaatctacaa agaatggagc tgcttatcag 660

aagtcttcac aacaatcatc gtctttcgaa caaaatttta ccagcactga gttcccgaat 720

gattatgatt ttatggagga tattctagat gagacaactg aattggatta g 771

<210> 559
<211> 1650
<212> DNA
<213> Saccharomyces cerevisiae

<400> 559

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aaaaatttaa tcaagaatat cgatgattta tgctcatctt cagaaaatca gatcacccac 180

tccacgatta tggccttgag acaggcactg gaagcaaaag agttaagctg ccatgaaata 240

acagctgcat tttgtcatag ggctgcttta attcatcaag tagtgaattg tctatccgaa 300

atcatgtttt cagaggcatt gagattggct gactattacg acagcaatag accagccata 360

ttgccaccct tgtacggtat accgatatct ctcaaagacc aatgtaacgt tgagggtgta 420

gacacctcac tgggttattt atgtcgaact ttcaaaccaa aaaccaagaa tgaagaatca 480

ttgattgtca gttttctgag agatttagga gctattatat ttgtaaaaac caccgtacct 540

tcatcgatga tggctacaga tacacaatct aacacctttg ggtacacata taatagtatt 600

aatttaagct tctccagtgg tggatcttct ggtggagagg gttcgttaat tggtgctcat 660

ggttccttgc tgggactagg aactgatata ggcggaagca tcagaattcc tagtagttac 720

caaggattat ttggtttgaa accaactttt ggacgcgtcc cttacttgag ggtggataat 780

tcatttgagg gaagggaaac aattcccagt gtaattgggc cgttggcaag agatctttcg 840

gatttgagat acttcatgag ttgcgttatc aacatctgtc aaccatgggt acaagacgtc 900

aagtgtattc cataccattt tgattcctct acaagtaaat tacacgataa ttatgttgtt 960

ggaatatggt atggtgacgg cgttattgat cctccgccca gtgacatcag ggctttaaag 1020

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agtgaactga gcagggaatt gtttgatctc gcaaatgaag cagatgttgc tgactcaggt 1140

aacgagataa aaaacgaatt cgaaatttcc ggagaaccac tcctagatat tttaaaacca 1200

atggttttgg aaaacggaag gcccccatat actgttaatg aatggtggga tttgaccaaa 1260

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aggcctgatg ttatcatatc tcctacaacg ctgatgccat ttaggcctgg tgacatgcta 1380

aagacaactt tacgatacat tttactattc aacgttttaa atttcccatc attatctata 1440

cctgtaggta gtgtcgattg ccaaattgat gggctaatgg ataccacttc tgcgctcaat 1500

ccagaagata aaatgatcaa aacatattgg aatgatttaa tacaatctgg tgagatagat 1560

gggtttccaa taggcctaca agtagttagc ccgactttca atgacaatga agtttgtaaa 1620

tttgcgtctt ggctttttag caaaatatag 1650

<210> 560
<211> 1941
<212> DNA
<213> Saccharomyces cerevisiae

<400> 560

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aaagaagaac ctaatggtaa aatagcttgg gaagaaagtg tcaaaaaatc tagggaaaat 120

aacgaaaatg acagcactct cttgaggcga aagctaggtg agactcgaaa agcaattgaa 180

actggaggat catcgagaaa taaactttct gctttgacac ccttgaaaaa agtggttgac 240

gagaggaagg attcggtaca accacaggtc ccttccatgg gttttactta ttctttgcct 300

aatttgaaga ctttaaacag tttttcagat gctgagcaag cacgtataat gcaagattat 360

ctatccaggg gggtaaatca aggcaacagt aataattatg tagacccact atatcggcaa 420

ttaaatccaa ctatgggtag tagcaggaac aggcctgttt ggagtttaaa tcagccgtta 480

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gaggataatt ataatccgaa aatgcagtgg tcacttcaag ataatagcgc cgcaataaac 600

aatgaggatg cgagagctat ttttaacaat gaatttgact ctgatgacga cgatatcagt 660

gatgatgaag aggatgaaat agaagaaaat tgtttgcaac aagagcaaca ccaagaggag 720

cctttactgt cattggatgt tacaccaatc tcaatgtttg gctcagatca aaaaacgggt 780

cgtgccaaga gttctagtca tttatttaat gagtacagtt acgttgactc taacatggac 840

agcatttcca gtgttgtatc tgaagatctg ttagatgaac ggggacatga gaagatagag 900

gatgaggatg aggataatga tcttgatgaa gacgatatct acgatatctc tctcttgaag 960

aacagaagaa agcaaagttt tgtcctcaat aaaaacacta ttgattttga aagatttcca 1020

tctccctcaa cctcggcaaa cgtaccgtct actgctacta ccggtaaaag gaaaccagca 1080

aaatcatcca gtaaccgtag ttgcgttagt aacagtaatg aaaacggcac attagaaaga 1140

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tatactaaga agcacttatc ttcacattca tctacaaatt cgaattcgaa accttcgact 1260

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ataatgaatc tcattacaaa tgaaccgtgt ggtgcccaat tttcaaggtc ctatgattta 1380

acgagacacc aaaataccat tcacgctaaa aggaagattg tcttccgttg ctcggagtgt 1440

ataaaaattc ttggatctga gggctatcag aagacgtttt cgagactgga tgctttaaca 1500

aggcatataa aatcgaagca tgaagatttg tcgttagaac aacgtcaaga agttacaaaa 1560

tttgcaaagg ctaatattgg ttatgtcatg ggttaa 1596

<210> 565
<211> 297
<212> DNA
<213> Saccharomyces cerevisiae

<400> 565

atgataacta aatacttcag taaggtaatt gtcaggttta atccctttgg caaggaagcg 60

aaagttgcta ggttagtact tgctgccatt ccaccaacgc aacgaaacat gggcacgcag 120

attcaatcgg aaattatctc agattacaat aaagtcaagc ctcttgtgaa agtaacctac 180

aaggacaaaa aagaaatgga agtcgatcca tcaaacatga actttcagga attagccaat 240

catttcgacc gtcactcgaa acagctggat ctcaaacata tgttggaaat gcattga 297

<210> 566
<211> 363
<212> DNA
<213> Saccharomyces cerevisiae

<400> 566

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actacatccg ggggaccatc aacctcactt actataatgt tgtcagtcat cgctatacga 120

atcctccctg ctggcatgag aaattggata cgccaagccc tgggcagcct cctctttgca 180

tcgtttctct tgctttcatc tttccactat ccaattaccc tgactctcgt tcctgtctat 240

catgagtctc ttgtcaagcc aacaagtgct tcctttggag gtatacgatt gtctcaactt 300

actatgatta tggagaggag agcaacgcct acgtgtcaag acccatcgtt aaccgaggtc 360

tag 363

<210> 567
<211> 1908
<212> DNA
<213> Saccharomyces cerevisiae

<400> 567

atggcacctg ttacaattga aaagttcgta aatcaagaag aacgacacct tgtttccaac 60

cgatcagcaa caattccgtt tggtgaatac atatttaaaa gattgttgtc catcgatacg 120

aaatcagttt tcggtgttcc tggtgacttc aacttatctc tattagaata tctctattca 180

cctagtgttg aatcagctgg cctaagatgg gtcggcacgt gtaatgaact gaacgccgct 240

tatgcggccg acggatattc ccgttactct aataagattg gctgtttaat aaccacgtat 300

ggcgttggtg aattaagcgc cttgaacggt atagccggtt cgttcgctga aaatgtcaaa 360

gttttgcaca ttgttggtgt ggccaagtcc atagattcgc gttcaagtaa ctttagtgat 420

cggaacctac atcatttggt cccacagcta catgattcaa attttaaagg gccaaatcat 480

aaagtatatc atgatatggt aaaagataga gtcgcttgct cggtagccta cttggaggat 540

attgaaactg catgtgacca agtcgataat gttatccgcg atatttacaa gtattctaaa 600

cctggttata tttttgttcc tgcagatttt gcggatatgt ctgttacatg tgataatttg 660

gttaatgttc cacgtatatc tcaacaagat tgtatagtat acccttctga aaaccaattg 720

tctgacataa tcaacaagat tactagttgg atatattcca gtaaaacacc tgcgatcctt 780

ggagacgtac tgactgatag gtatggtgtg agtaactttt tgaacaagct tatctgcaaa 840

actgggattt ggaatttttc cactgttatg ggaaaatctg taattgatga gtcaaaccca 900

acttatatgg gtcaatataa tggtaaagaa ggtttaaaac aagtctatga acattttgaa 960

ctgtgcgact tggtcttgca ttttggagtc gacatcaatg aaattaataa tgggcattat 1020

acttttactt ataaaccaaa tgctaaaatc attcaatttc atccgaatta tattcgcctt 1080

gtggacacta ggcagggcaa tgagcaaatg ttcaaaggaa tcaattttgc ccctatttta 1140

aaagaactat acaagcgcat tgacgtttct aaactttctt tgcaatatga ttcaaatgta 1200

actcaatata cgaacgaaac aatgcggtta gaagatccta ccaatggaca atcaagcatt 1260

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gtttgtgaaa caggctcttt tcaattctct gttcgtgatt tcgcgtttcc ttcgcaatta 1380

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tggaaatgga ccaaactatt tgaagcattc ggagacttcg acggaaagta tactaatagc 1740

actctcattc aatgtccctc taaattagca ctgaaattgg aggagcttaa gaattcaaac 1800

aaaagaagcg ggatagaact tttagaagtc aaattaggcg aattggattt ccccgaacag 1860

ctaaagtgca tggttgaagc agcggcactt aaaagaaata aaaaatag 1908

<210> 568
<211> 417
<212> DNA
<213> Saccharomyces cerevisiae

<400> 568

atgatatttc taaaatctgt catcaaggta atcgacaatt caggtgcaca attagcagaa 60

tgtattaaag taataaggaa agggtccccc aagagtcctg caatggttgg agacagaata 120

gtctgtgtta tacagaaagc aaagcccttg actcaaaaca ttacggggac agccaacacc 180

aaccgtgtca aaaaaggtga tatttgtcac gcaattgtcg taaggtctaa acagcgtaac 240

atgtgcagaa aggatggctc caccgttgca ttcggagata ctgcttgcgt tttgattaat 300

aaaaataccg gtgaacctct ggggacaaga attatggcta atgatggttg tgtagataga 360

acactgaaag acaagggata caataagata tgctctttgg caagtagggt catataa 417

<210> 569
<211> 768
<212> DNA
<213> Saccharomyces cerevisiae

<400> 569

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atccttgaaa agcaagaatc ggcgttaacg ggcgacgctg atgcagtgtt caatatcgcc 120

atcagtggag gatcgatgaa ccaagcgctg tacgaaagtt tggtaaatga caaaaacatt 180

tttccacata ttaagtggcc acaatggaga atcttcttct gtgacgaaag attggttcca 240

tttgaggatc cgcaaagtaa ctatggtcag ttcaaaaaaa cagttttgga cccgctagtg 300

catcagggca accaattgaa cttaggcccc actgtataca ctatcaacga atcattaatc 360

ggtggcggtg aaacggccaa tagaaagatt gccgaagaat acgcttccat gctgcctgca 420

tcattcgacc taatcttact cggatgcgga gaagatggac atacatgctc gttgtttccc 480

ggggttgaat ttaattacct tgtagaagag atggaccgca aggttttatg gtgtaataat 540

tcgcccaagg cacccaagga caggatcacc tttacattag cagtagtagc cgaggctaaa 600

agtgtgtgct ttctcgttag gggagctgct aaaaaggcta tcatgcatga cgtgttaatc 660

gtaaaaaata gcgaactacc tagtgtgctg gttaatgaaa tggtcggaac caaagtaact 720

tggtttctcg acgacgaagc tggcgccttg attcctgaaa actgctaa 768

<210> 570
<211> 324
<212> DNA

<213> Saccharomyces cerevisiae

<400> 570

atgagtaggg ctagcaagat aacgtttgca gcttcctgtc tgataacggc agcgacggta 60

gtgggcgtgc attatgtgca agaaatggaa agggaaactt tgcatcaggg tccgataaaa 120

gatgctaaac gagtcgaaga aaagaggttg agaaagacaa acggagttgc atcattagat 180

cccacaaaag aaaggaaaag gtacttcaat atgagtgaac acgaggaaca aaaagagttg 240

cgaaagaagt atgagaccat gcaaccgctt agtggagaag ttgtgaccaa agatggagag 300

gtggttaaag aatctaagaa ataa 324

<210> 571
<211> 936
<212> DNA
<213> Saccharomyces cerevisiae

<400> 571

atgttgtcaa gaattgtatc aaacaatgca acacgctccg taatgtgcca ccaagcgcaa 60

gtgggtattc tttataagac taacccagtg agaacttatg ctactttgaa agaagtggaa 120

atgcgtttga aatctatcaa aaatattgag aagatcacaa aaactatgaa gattgttgca 180

tctacaagat tgagtaaagc tgaaaaggct aaaatttccg caaagaagat ggatgaagca 240

gagcagttgt tttacaagaa cgccgaaacc aaaaatttgg atgttgaggc tactgaaaca 300

ggtgctccta aagagttgat tgttgctatc acctctgata aggggttgtg tggttctatc 360

cactctcaat tggctaaagc tgtgagaaga catttgaatg atcaaccaaa cgccgatata 420

gtcactattg gtgataaaat taaaatgcag ctattgagaa cccatcctaa caacattaaa 480

ttgtctatta atggaattgg taaagatgcc ccaactttcc aagaatctgc tttgattgcc 540

gataagttat tgagtgtcat gaaggccggc acttacccaa agatttccat tttctacaat 600

gacccagtgt cttccctatc ttttgaacca tctgaaaaac cgatctttaa cgccaagacc 660

attgaacaat ccccatcatt cggcaaattt gagatcgaca cggacgcaaa cgttccaaga 720

gatttgtttg aatatacttt ggctaaccaa atgttgacag caatggctca aggttatgct 780

gctgaaattt ccgccagaag aaacgctatg gataacgctt ccaagaatgc cggtgatatg 840

atcaatcgtt actctatctt gtacaacaga acaagacaag ctgtcattac taatgaactg 900

gttgatatta ttactggtgc ttcctctttg ggatga 936

<210> 572
<211> 3294
<212> DNA
<213> Saccharomyces cerevisiae

<400> 572

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cagttggaaa agaaaatcaa acggcaatca atagatcatg gtgttggaag tgaacctgtt 120

tcaacaatag agattattcc gagtgattct tttcgaaaat ataatagtca aggcttcaaa 180

gcaaaggata cagatttaat gggtacgcaa ttagagtcta cttttgaaca agacgtatcg 240

caaatggaac atgatatggc cgaccaagaa gagcatgacc tgtcatcatt cgagcgtaag 300

aaacttccaa ccgattttga cccaagtttg tatgatattt ctttccaaca aattgatgcg 360

gaacagagcg tactgaatgg tatcaaagat gaaaatacat ctaccgtggt aaggtttttt 420

ggtgtcacta gtgaaggaca ctctgtactt tgtaatgtta cagggttcaa gaactatctt 480

tacgtcccag cgcccaattc ttccgacgct aacgatcagg agcaaatcaa caagtttgtg 540

cactatttaa acgaaacatt tgaccacgct attgattcga ttgaagttgt atctaaacag 600

tctatctggg gttattccgg agataccaaa ttaccattct ggaaaatata cgtcacctat 660

ccgcatatgg tcaacaaact gcgtactgcg tttgaaagag gtcatctttc attcaactcg 720

tggttttcta acggcacgac tacttatgat aacattgcct acactttaag gttaatggta 780

gattgtggaa ttgtcggtat gtcctggata acattaccaa aaggaaagta ttcgatgatt 840

gagcctaata acagagtttc ctcttgtcag ttggaagttt caattaatta tcgtaaccta 900

atagcacatc ctgctgaggg tgattggtct catacagctc cattgcgtat catgtccttt 960

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tataatacta caaattttga tatcccttat cttttaaacc gtgcaaaggc gctaaaggtg 1260

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cagttggatc ttttgcaatt tattcagcgt gagtataaac taagatccta cacgttgaat 1440

gcagtctctg cgcacttttt aggtgaacag aaggaggatg tacattatag catcatttct 1500

gatctacaaa atggcgatag tgaaacaaga agaaggttgg ccgtttactg tttgaaagac 1560

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gctcgtgtta caggtgtgcc attttcatat ttactagctc gtggtcaaca aattaaagtt 1680

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aacctatgtt atacaacact ttgtaacaaa gctactgtag agagattgaa tcttaaaatt 1920

gacgaagact acgtcataac acctaatgga gattattttg ttaccacaaa aagaaggcgt 1980

ggtatattac caattattct ggatgaatta ataagtgcta gaaaacgcgc taaaaaagat 2040

ctgagagatg agaaggatcc attcaaaaga gatgttttaa atggtagaca attggctttg 2100

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tggactaatc ctgacaagtt tgacaagttg gaccaaaaag gccttgcttc tgtccgtcgt 2520

gattcctgtt ccttggtttc tattgttatg aataaagttt taaagaaaat tttaattgaa 2580

agaaatgtag atggtgcttt agcttttgtc agagaaacta tcaatgatat tctgcataat 2640

agagtagata tttcaaagtt gattatatca aagacgttag ccccaaatta cacaaatcca 2700

cagccgcacg ccgttttggc tgaacgtatg aagaggagag agggcgttgg tccaaatgtt 2760

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gatccattat ttgtactaga aaacaatatt caagtggatt cgcgctatta tttaactaat 2880

caattacaaa atccaatcat tagtattgtt gcacctatta ttggcgacaa acaggcgaac 2940

ggtatgttcg ttgtgaaatc cattaaaatt aacacaggct ctcaaaaagg aggcttgatg 3000

agctttatta aaaaagttga ggcttgtaaa agttgtaaag gtccgttgag gaaaggtgaa 3060

ggccctcttt gttcaaactg tctagcaagg tctggagaat tatacataaa ggcattatac 3120

gatgtcagag atttagagga aaaatactca agattatgga cacaatgcca aaggtgcgct 3180

ggtaacttac atagtgaagt tttgtgttca aataagaact gtgacatttt ttatatgcgg 3240

gttaaggtta aaaaagagct gcaggagaaa gtagaacaat taagcaaatg gtaa 3294

<210> 573
<211> 1086
<212> DNA
<213> Saccharomyces cerevisiae

<400> 573

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aaaaaatgta gcagcatcgt tattaaagac ttaactgtcc cagctggaca gactttagat 180

ttaactgggt taagcagtgg tactactgtt acgtttgaag gcacaaccac atttcagtac 240

aaggaatgga gcggcccttt aatttcaatc tcagggtcta aaatcagcgt tgttggtgct 300

tcgggacata ccattgatgg tcaaggagca aaatggtggg atggcttagg tgatagcggt 360

aaagtcaaac cgaagtttgt aaagttggcg ttgacgggaa catctaaggt caccggattg 420

aatattaaaa atgctccaca ccaagtcttc agcatcaata aatgttcaga tttaaccatc 480

agcgacataa caattgatat cagagacggt gattcggctg gtggtcataa tacggatggg 540

tttgatgttg gtagttctag taacgtctta attcaaggat gtactgttta taatcaggat 600

gactgtattg ctgtgaattc cggttcaact attaaattta tgaacaacta ctgctacaat 660

ggccatggta tttctgtagg ttctgttggt ggccgttctg ataatacagt caatggtttc 720

tgggctgaaa ataaccatgt tatcaactct gacaacgggt tgagaataaa aaccgtagaa 780

ggtgcgacag gcacagtcac taatgtcaac tttatcagta ataaaattag cggcataaaa 840

agttatggta ttgttatcga aggcgattat ttgaatagta agactactgg aactgctaca 900

ggtggcgttc ccatttcgaa tttagtaatg aaggatatca ccgggagcgt gaactccaca 960

gcgaagaggg ttaaaatttt ggtgaaaaac gctactaact ggcaatggtc tggggtgtca 1020

attaccggtg gttcttccta ttctggatgt tctggaatcc catctggatc tggtgcaagc 1080

tgttaa 1086

<210> 574
<211> 714
<212> DNA
<213> Saccharomyces cerevisiae

<400> 574

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agagattatt tagtgcatga tgaaggtgaa atatcaaggg agggtgattt agtaaggata 180

gaagcgacga ggccgctttc aaagaggaag ttttttgcca ttgcagaaat tattagaaac 240

aagggtcaac aatttgcatt atacgaatca gaagctcagt taagcgttgc aaaagaagaa 300

gcccaaaagg caaaagaatt tttggataaa agatcagtga gggagaataa actaaatgaa 360

aaaacaaccc ttttacgtga tattaggacc atccaagatg ctttatctag cgggtcaacg 420

ccgaaagagt tattggagat taaacaaagg tacggcattc aagatttttc acaagaaaca 480

gtgaggcaac ttttacagtt agacatctct ggattggagg ttaatttgga gaaacaaaga 540

agtctcattg atcgtattca aacgcgatta tccgaattgt tgtcgaatga tctaaaatgt 600

gatcaatttt tgaaggatca tggtgttgag gatcctttga ccttgaaaaa aaacatcaaa 660

aaaaatttgt taagaaagca cgtcatgatg gatatgcaac aaccaagcca gtaa 714

<210> 575
<211> 489
<212> DNA
<213> Saccharomyces cerevisiae

<400> 575

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gaccaactga aaggcaaagt agttctcata gttaatgttg cctccaagtg cggcttcacg 120

ccgcagtata aagaattgga agaactatac aaaaaatatc aagataaggg gtttgttatt 180

ttggggttcc catgtaatca gttcgggaag caggaaccgg gctctgatga acaaattacg 240

gaattttgcc agttgaatta tggcgttaca ttcccaatta tgaagaagat tgatgttaac 300

ggaagtaatg ctgactctgt ctataattat ttgaaaagcc aaaaagcagg tttactaggt 360

ttcaagggta tcaaatggaa ttttgaaaag ttcttagttg attccaatgg taaggttgtc 420

caaagatttt cctccttaac aaaaccatcg tccttggacc aagaaatcca aagcctgtta 480

agtaaatga 489

<210> 576
<211> 1473
<212> DNA
<213> Saccharomyces cerevisiae

<400> 576

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caatcatgta ttggcagagg taactttggt gatgtgtata aagcagtgga tagagttacg 120

caagaaattg tggcaattaa ggtggtcaac ctggagcatt ccgacgaaga cattgaactg 180

ttagcacagg aaatttttt tctggcggaa ttgaaatctc ctcttattac aaactatatt 240

gcaacaatgt tagaagatgt ctctatgtgg attgtcatgg aatattgcgg cggtggatca 300

tgttcagatt tactgaagcg aagttacgtc aacggtttgc ctgaagaaaa agtttccttc 360

attattcatg aagtcacctt gggtttgaaa tacctgcatg agcaaaggaa aattcatcgt 420

gatatcaaag cagctaatat tttactaaat gaagaaggta tggttaagtt gggtgatttc 480

ggagtaagtg gccacattcg ttccactttg aaaagggaca cttttgtagg aacgccgtat 540

tggatggctc cggaagttgt ttgctgcgaa gttgatgggt ataatgagaa agcagatata 600

tggtccttgg gtatcaccac ctatgagtta ctcaagggct tacccccatt atctaaatat 660

gatcctatga aagttatgac taacttacca aaaaggaagc ctccaaaatt acaaggtccc 720

ttttcggatg cagcaaagga tttcgtagct ggttgtcttg ttaaaacacc tgctgatcgg 780

ccatcggcat ataacttgtt atcatttgaa tttgttaaga atatcaccat aacgaacttg 840

aaaagtgatg ttgatctaat taaacagaaa aaggttcagg agagatatac aaaagttccc 900

aaataccctc ttcaaaatcg cttgtataaa aacagcaaca cagtgagggg aaaggaattt 960

tggaattttg aatcgacaag actaagcaca acacaaattt ccaaagagga attatctccc 1020

attacacaag actctccaac atcatcttta aatatggaaa gtccttattt acttcatggg 1080

caaactgtaa cgccgataac caacccaagt tcttcatcat ttagaaaatg tacgcaacca 1140

gttttcgagc ttgattcagg aatggatata gattcaggct gcccaaatgc tcaagcagag 1200

accgaaatag ttcctctctc taatcataat aagaagcata aaaagaacga tattcaggcg 1260

ttgaagatag aaaagtttga ctacttgaaa aacattgtat ctcatattct caacagaatg 1320

tatgatcgtg cgcgcgacga tgaaacaaga aaatacgtaa atgaaatgtt aaagcaattc 1380

attaaaactg aggcaaacgt tcctggattt aatgaggttt ttatagaaga gatctcacta 1440

agaattgaag caataaagaa aggattcgtt taa 1473

<210> 577
<211> 2988
<212> DNA
<213> Saccharomyces cerevisiae

<400> 577

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gacatcaaga aaaaaaagaa tagtaagaag gaaatagcag catttccaat gttagaaatg 300

tcagatgatg aaaacaatgc atctggtaaa actcaaaccg gtgatgatga ggatgatgtc 360

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<212> DNA
<213> Saccharomyces cerevisiae

<400> 578

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cagcagcgac aacaacagca gcagcagcaa cagcagcaac agcagtggat aaatcaacct 180

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tggtagcaaa tattctggga catctttaat accagttctt ccagaggtgg ctcagagttc 480

gctcagcaat attatcaact agttcttcaa gaacaaaggc aggaacaaat atatagaagc 540

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gaggacatag accccatgca cttggctgct atgatgctag gaaatcctat ggcacctgcg 660

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gttaataatt tttccattcc accatacaat aatgcaaacc ccacgactgg tgcaactgct 780

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cactctcaga acttgaagtt tgggaatatt ggtatggttg aagaccaagg accggattac 2340

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<211> 564
<212> DNA
<213> Saccharomyces cerevisiae

<400> 579

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ctgggctcgc gcttgctatc attgctgctg gttagcagtg gcaacgcgga ggagctcatt 180

agcatgataa ataatggcca ggatgtctcg cagtttaaga agctccgcga gccgagaaag 240

gggaaggttg ccgcaacaac agcagttgtt gtaaaagaag aggaagctcc cgtgagcact 300

tctaacgaac tggataagat taagcaagag cggagaagaa agaacacaga ggcgtcgcag 360

cggttccgca ttcgcaagaa acaaaagaat tttgagaaca tgaataagct gcagaactta 420

aacacgcaaa tcaacaaact tcgcgatcgt atagagcaat tgaacaagga aaatgagttt 480

tggaaagcaa agctcaatga cattaacgag attaagtctt tgaaattgtt gaatgacatt 540

aagagacgga acatgggcag gtag 564

<210> 580
<211> 303
<212> DNA
<213> Saccharomyces cerevisiae

<400> 580

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tgcaaatatg taagtacttt taaaattctc tttccaaaga aaaggaaatt atttcagact 120

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gcctcgcttg agctgacaac gtcatcttcg tcagtactct cgccatccag taaatatgtg 240

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<210> 581
<211> 1908
<212> DNA
<213> Saccharomyces cerevisiae

<400> 581

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aagttcaaca agaacaagaa tatcaacact aatgtgtatg tggacaactc ctcaatagag 180

gagagcgaag tcgtgccctt gcccgaaaca aagtccatct ggagtaaaat atactacgat 240

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<210> 582
<211> 3819
<212> DNA
<213> Saccharomyces cerevisiae

<400> 582

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gggacaagta taaaccagca gtctacccct ggagatgttg acgatggaaa acacttactg 180

tatccagata ttgccaccaa cctaccactg aagacttctg acagactttt ggacgatata 240

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tcgaggggta ttttaaaaga gtctatgctt tcttactcaa ctttcagaag tagtattcgc 360

cctaactgct tgggttcatt aactgatcaa gtggtttttc aaacaaaatc cgagtatgat 420

tccatttcat gcccaaaata taataaaata catgtatttc aggcggtcat ctttaatcca 480

tcactggcag aacagcaaat ttcaactttt gatgatattg ttaaaattcc tatttatcat 540

cttaaggtta gcgtaaaagt ccgccaagaa ctggagcggt tgaagaagca tgtcggtgtt 600

actcaattcc actcactaga tcatttgcac gaatacgatc gagtagacct ttcgactttt 660

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aatttcaatg agggtaacac tgcaactcca tatttcctag tatatgtcaa acaaggacaa 3780

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<211> 306
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<213> Saccharomyces cerevisiae

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ggtgccgggg ggtgccttga aaaacccttt tgcgcgcctg ttaagtttcc gttttcagtc 180

aaaaagaata tccgaatttt agatttggac cctcgttcag aagcttactg tctaagccat 240

catttggtgt gtcctaaacg gtttccatgc aaagcaacat ctttgttact cattcctgaa 300

ggttga 306

<210> 584

<211> 1152
<212> DNA
<213> Saccharomyces cerevisiae

<400> 584

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agcacgtccc aaaagttacc ttatagaata aatcctacaa ccactaatgg ggacaccgac 180

atatctgtta acagcaatcc tatccagcct cctttgccaa acttgatgca tctatctggt 240

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attgcagagg agcaactatc aaccctccca tctcgcaata ccagtgttac tactgcacct 540

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gataatgtaa ccaaacctgt tcctgataaa gacacccaac tcataagtag ttcaggcaaa 660

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gcagaaaata ataacttcaa atcattaaac gattcattaa gaaatgacaa caacatttta 840

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ttatgtaacg aaaacaacat gttgaagaat gagaatagta taataaaaaa tgaacacaac 960

atgtcaagaa atgaaaatga aaacctaaaa cttgagaata aacgcttcca cgctgaatat 1020

atacgaatga tcgaggatat tgaaaatact aaaagaaagg aacaagaaca acgagatgaa 1080

atagagcaac taaaaaaaaa aataagatcc ctggaggaaa tagtagggag acactcggat 1140

agtgccacgt aa 1152

<210> 585
<211> 576
<212> DNA
<213> Saccharomyces cerevisiae

<400> 585

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caaaacaggt tacaaaataa aaaaccagca ctcataccgg cagaaaatgg tgttgatata 180

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<400> 586

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<210> 587
<211> 5097
<212> DNA
<213> Saccharomyces cerevisiae

<400> 587

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<211> 1860
<212> DNA
<213> Saccharomyces cerevisiae

<400> 588

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aggaaatgca aagaattctt cgactctttt aaaaggcagc tgccaccaga ccgtaattcc 240

gaactagagt cccaagaaaa aaacaacctg acaaagtcga tcaaatctcg tcacttagtc 300

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<211> 330
<212> DNA
<213> Saccharomyces cerevisiae

<400> 589

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gaccgcatag acgaacaccg ttgcaaagaa gtccagttat cttcattacg aagtctattg 180

tatgctatga ttttaaatag aaccataggc agcgagaccg gcgtttttttc ttttctgctc 240

ttttcttttc gttacttcgg agaggaaaga gacttatttt actgcttctt ctccgtcttt 300

ttacttaaca ttacatattt attggattag 330

<210> 590
<211> 330
<212> DNA
<213> Saccharomyces cerevisiae

<400> 590

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ctcaagtctc cagtcattgg tactcgtacc aacatattcc tgcttgtggt atatagcagt 120

ttagttagtt ctttagtcgg tatgcgttcc tttccttttat atccgtcagg attaacttca 180

aggacttcac acagtttttc tatcttacta atattctttt tcgtcaccgt gtttatagtt 240

ctgatgggaa tatacctgcg aatcccagat attcgagcaa cagtagttgc aaacactttt 300

gtcctcaaca tgtcgagatt cattatctga 330

<210> 591
<211> 369
<212> DNA
<213> Saccharomyces cerevisiae

<400> 591

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ttcaaatctg gtttctcagt attacaaagt gctgcattgg atacagatga cgacctcgca 180

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gacgtagatg aagaggaggc tggcgacgta gaaggcctcg atggcttcgt atttgtcttc 300

cgtctactct tacctttata caaccaatct acgggcacat cgaactcggt gttagttatc 360

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<210> 592
<211> 366
<212> DNA
<213> Saccharomyces cerevisiae

<400> 592

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gagttctcct ggcttttctc cacgtgtctg cttgttgcct ttgatttcgc gagagactgc 180

ggactgccac cccactccgg gaaaacctgg agtgatggta aaggccctgc ggcgctttct 240

ttcggaaaaa ctaatacgaa agaagcaaca acaaattttt acaacaggct ggacgagaaa 300

agtggggaag agcaagcaga aaaaagaaaa gagaatagtc gttcttggat aatttattta 360

ttataa 366

<210> 593
<211> 357
<212> DNA
<213> Saccharomyces cerevisiae

<400> 593

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cttacaatac cccgttgtac atccaagtcg tatacaaatg atttatcccc actcaaaatg 300

acattgctat ccgccggcaa gcacccaagg cctttccgcc aagagcaccg ttgctag 357

<210> 594
<211> 387
<212> DNA
<213> Saccharomyces cerevisiae

<400> 594

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tatttttcct ctggctattt ccattggtca ttaatcactc aaaattatat aatattcttg 180

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gtcttaacgg tcatttctta ttgtgttagc tgtctttctt gtttctttga tacttgtaaa 360

tcagtactat actgttcaac atcctga 387

<210> 595
<211> 1044
<212> DNA
<213> Saccharomyces cerevisiae

<400> 595

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catttcgaaa aatcttactt tgatttcaaa tacgacgtgg agaaggccgc cgaagctaaa 1020

gagcacatgc aagaagctaa ttaa 1044

<210> 596
<211> 447
<212> DNA
<213> Saccharomyces cerevisiae

<400> 596

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gaaataaatc attcacctac cgcaacaacg gatgaaacga gaaagcagaa taatccggag 180

ctgaaagtga aagaaccagt ttgtaacctc aagaagtggg aaaataacac taactttata 240

ttggaagatc atacgaagaa taaaacaaaa ctttctagca cagataggat acgtaagtgg 300

tttagaagac atatattaaa ggaagagatc gaaatccttt cccatggaaa acaattgagt 360

agtattgatg aggattattg cccttcaaat gttcttgtag gatgttcaag agatctaaat 420

aaactcagat catttcaaaa tttttag 447

<210> 597
<211> 1539
<212> DNA
<213> Saccharomyces cerevisiae

<400> 597

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aaaccagaag ttcgtcaata ctggtcatcc gtttcatctc atatttcacg ctcaggtgat 180

gtgtttacaa atgataaaga aaaaatttca tcctctattg gtgaggatgc gatggatatc 240

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tccttggaga gaactcatat tgaagtacaa acaaacccaa agctaaagaa cgatgtcaca 180

gctttaaatg atattaacaa gaaagaaaat aaagaagaga tcactcatga aaactataca 240

caccagatta atagtattcc attgacaagc tcaaatttaa atcggcattt ctccttttct 300

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aagtcctcgt ctttgaagca tgtcaaaagg tcgttttaca acggaatttg gtcgtctact 540

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gtaaatgtat atatacagct tgtgatttcg cgcgccgaat gggctgaaaa gcacagtata 180

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agggaaggcc aagctgttgt tcaatggatg cggttcgagg cccagcgcaa ggggggcgct 300

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<213> Saccharomyces cerevisiae

<400> 606

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<211> 315
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gcctgcgcta tatattctga cgtctactcc ataactatta tagtagtggc cactgttgtt 180

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<210> 608
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<213> Saccharomyces cerevisiae

<400> 608

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<211> 1383
<212> DNA
<213> Saccharomyces cerevisiae

<400> 609

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<213> Saccharomyces cerevisiae

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<211> 804
<212> DNA
<213> Saccharomyces cerevisiae

<400> 611

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tgcccgcaag cagcgtgttc tcaagtcgtt tcaatgaggg attttgtaag agaccctatt 720

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<211> 2448
<212> DNA
<213> Saccharomyces cerevisiae

<400> 612

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<211> 1395
<212> DNA
<213> Saccharomyces cerevisiae

<400> 613

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aataacaccg tcaaaaggtc gatcccatca tcgataagca ccactattac ccccaacaag 240

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aacttaaagg cagagaaggc ccattactct cagaaagaga aacaatattt tcaaaaatat 960

acctatatag agaaatacat gaatcatgtc aaggaagagt ataatagaaa agaggacgaa 1020

tgcaaaaaat tgaactttat tattgacaag agcatgaaaa aaatagaaca tttggagagg 1080

tcgcttcaga ctcaatttac cgctcaaaac agcttctcaa ctgcaatgat ccaagaggaa 1140

ggcccgaaag atgcccattt gaaggatcgc tatcacaaag tcaaagagtt tatggaacaa 1200

aagttgcaga cttccaaaat taatgacccc tcttgttctg aggcagaggc acttgataat 1260

gtactttgct taatcgaaag cagtatgaaa acactggaca aaaatagtaa atgttatcca 1320

attgcgacaa aaaagtgcat aaagtatgtt actgactcac caagacttaa agaaaatgaa 1380

cacgttacaa attga 1395

<210> 614
<211> 2013
<212> DNA
<213> Saccharomyces cerevisiae

<400> 614

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acaaataatg gggaacacta ttgggcggaa aagccgaaca aattctacca gaacaaaagg 180

cccaattttc aaggcattac ctttgctaaa caacaagact taccatcatt acccgtgccc 240

gaattgaagt ctacacttga caagtatttg caaaccatcc gcccattttg caatgatgta 300

gaaacttttg aaagacagca gctgttatgt aaggacttct cggagcacat ggggcctatc 360

ttacaagacc gattgaaaga gtatgccaac gataaaagaa actggatggc caagttttgg 420

gatgaacaat cctatttaca atacaacgat cctattgttc catacgtctc ttatttttat 480

tctcatatgc cattaccgaa tcatttatcg aagatcgata atgatccttt gattaaggct 540

actgcgatta tctcaaccgt ggttaaattc atcgaagcta ttaaagatga atctttaccc 600

gtagaaatta tcaaaggtat gccattttgt atgaatagtt tttcattgat gtttaacact 660

tcgagattgc ctggtaagcc agaggataac caagatacaa atatttttta ttcagtttat 720

gagaacaact ttgtaactat cgcttataaa gggaagtttt acaaactgat gacccatgac 780

gggaatgaca aaccgctttc cgaaaacgaa atctggaggc aactgtactc tgtggtattc 840

caaggatcgc agtccgatcc caaactaggt ggcattggtt ctctcacctc tttacctcgt 900

gatcaatggc gtgaagtaca tctggagctt atgaaggatc ctatttctca ggattcacta 960

gaaacaatcc ataagtcttc ctttatgcta tgtttggatc ttgaccaatc ccctgtcact 1020

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tctttacagt tcctggtcac cggtaatggt tcatcaggtt tcttagctga acactcgaag 1140

atggatggta cgccaacatt gtttttaaat aactacgttt gtcagcagtt gaataaacta 1200

gatgtggatg acttcatgag aaaagtaatt acgccatcat ctacggtggc aatgaaacct 1260

atggaactgc ccttcattat cacaccgaag attcataaag caatcgaatc tgcccaacta 1320

caatttaagg aaacaattgg tgagcatgac ctacgtgttt ggcactacaa caaatacgga 1380

aaaacgttta taaaacgcca tggcatgtca cctgatgcat ttattcaaca agttatccaa 1440

ctggcggttt tcaaatatct gaaacgacaa ctaccaactt acgaggctgc ttccacgaga 1500

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gtttctaaat ggcaaaatgg cgatgttcct attgcagaaa agattcaggc tttgaaacat 1620

tctgcaaaag agcattctac gtacctgaaa aatgctgcaa atggtaatgg tgtcgatcgt 1680

catttcttcg gtctaaagaa tatgctaaaa tctaatgatg accaaattcc gccccttttc 1740

aaagatccct tatttaatta ttcttcaact tggttgatct ccacatctca actatcttcg 1800

gaatattttg acggttatgg ttggtctcaa gtaaatgaca acgggtttgg actggcatac 1860

atgttgaata acgagtggct gcatatcaat attgtcaaca aaccagccaa gagtggagcc 1920

agtgttaaca gattacacta ttatttatct caagctgctg atgaaatttt tgacgccttg 1980

gaaaatgaga ataaacgaaa agcaaagtta tga 2013

<210> 615
<211> 1227
<212> DNA
<213> Saccharomyces cerevisiae

<400> 615

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aagaaaggag atgtcgaaga tgtaggtgct ctcaagagtg aaaaaaattt aaaaataaat 180

cctcgggaaa actcaaaaca tatatacaaa tgggttgcgc ctttcgaaaa tggatttttg 240

aataataaat cactgtttgc tcatctggaa cctatataca atttcctttg ccagaataag 300

tacaaaagct tcgaagatgc agttggttta aaggagctgc aatcatttag caaagatgta 360

tcaactgctg atataaacaa ctggttttta ccgagatata aaattctgct aaaaatcctg 420

agcttaaaaa caaaagaaat tgactttaga gggttatcgc aagtgtttca aacactccaa 480

atcttgttag tttctcatta ttcgcatcgc atagattctg attcttcttt taagaggaca 540

ctgatagacg ttcatgtttt caatttcatc gccaagtttc tgtttaatag aattttattg 600

aagaagaacc aaaacgatcc aaaatggctt caaaactttt acgaccaggg agatggcaaa 660

catttatgtg ataaagttga ctacaagcgc ttgtgttcgt tgcattttac ccttatttac 720

tctattatta acattcaact catcaaaatc aagacaaacc aaacatttga accgcagata 780

ttaaaatacg tatctgttct gaaattaatt gaacacatac ttatcatcat cgaaagtctg 840

atacatgtac ttattagatt tgtatcgaag cataaactaa tatgcatcaa ccggaaaaag 900

gcgtactgtc gagtatacct cgaaagagaa ttgagtttga agaaaaccta cttaaagaac 960

ttttacagtg taataagcgg tgtcccagaa aaagagttag ggggtctatt gaaaatactc 1020

aagatagtta ttctatcatt gctcgagaca tttgaaagca ttgaatggca gcacttaaaa 1080

cctttcctgg aaaaatttcc ggctcatgaa atatcgcttc agaagaaaag gaaatatata 1140

caggcggcct tattaattac tgccgaaaga aatttgatag cgcgctttcg attgtcaaga 1200

tggttcaatg agacagaaaa catttaa 1227

<210> 616
<211> 1956
<212> DNA
<213> Saccharomyces cerevisiae

<400> 616

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actccaacaa ctacagctgc agctaatgga gaaaagaaat taacaaacaa ggagctaaaa 120

gaactaaaga aacaagaaaa agctgcaaag agagctgcaa tgaagcaggc taatggtata 180

tccattgaac aacagcaaca acaagcacaa atgaaaaaag agaagaaaca actacaacgt 240

gagcaacaac agaaaagaga gcaaaagcaa aaaaatgcca ataaaaaaaa acaaaatgaa 300

cgaaacgtga aaaagagcac acttttttggt catctggaaa ctactgaaga aagaagagcg 360

acaattttag ctttaaccag tgcagtatca tctccaaaaa cttcgcgaat caccgctgct 420

gggttgatgg tccccgtggt ggctagtgca ttatcaggat ctaacgtatt aacggcttct 480

tccttgatgc ccgtgggtcc aaacgcgtcg tctactgtat ctgcatcagc tccagcttca 540

acaacaacga ctcttcctgc ctcttctgca gcactctctg ccggtaccag ttctgcgtca 600

acaaatactc caacagctat acaacaagag attgcttcat caaacgcttc tgatgttgcc 660

aagacattgg catctatctc gttagaggct ggtgagttta atgtcattcc cggtatatcg 720

tcagtgatcc ctaccgtgtt agaacaatca tttgacaact ccagcttgat atcgtctgtt 780

aaggaacttt tattgaataa agaccttatc catccgtcga tattattatt aacttctcat 840

ctagcacact ataaaatcgt gggatccatc ccacgttgca tagccatgct agaggttttc 900

caaattgtta tcaaagacta tcaaacacct aagggaacta ccttgtcacg taacttaaca 960

agttatttgt cacaccagat tgatcttttg aaaaaagcta gacctttaag tgttactatg 1020

ggtaatgcta tcagatggtt aaagcaagaa atttcattaa ttgacccatc tacccccgac 1080

aaagccgcca aaaaagacct ttgtgagaaa attgggcagt ttgctaaaga aaaaatcgaa 1140

ctggctgatc aactaattat agacaatgcc tctacacaaa ttgaagaatc tactactatt 1200

gtgacatatg gttcatcaaa ggttctaact gaactgttac tgcataatgc aatcagttta 1260

aagaaaaaca tcaaagtgat tgtcgtcgat tcgagaccac tatttgaagg gcggaaaatg 1320

gcagaaactt taagaaatgc tggtgtcaat gttatgtatg cacttattac aagtttggat 1380

acgatattca atatggatgt ggactatgtg tttttaggag cccattctat cctatctaat 1440

gggttcctat attcaagagc tgggacagca atgttggcta tgagcgctaa gagaagaaat 1500

atacctgtat tagtctgctg cgaaagtttg aagttttcac aaagagtaca attggatagt 1560

gtcacattta atgaactggc agatccaaat gacctggtta atatagatta cgaaaatcca 1620

gtcgagagac gcggtaataa aggtgcgtta ttaaaccaat ttatcaaaga aagaaaattt 1680

gaaaagaaaa agctagcaat ggagaataag ccaaagggta ataaaattgg cggtaagaaa 1740

ggatctgaag gagaaagcaa ggacgccagt aatgaagaag acagcaacag caaaaatatt 1800

ttggatggtt ggcaagagtt accttcgtta aatattgtca acatcttata cgatttaaca 1860

ccaccagaat atattaaaaa agtgatcact gaattcggcg ctttgccacc ttcatctgtc 1920

cctgttattt taagagagta caaaggttcc gcataa 1956

<210> 617
<211> 342
<212> DNA
<213> Saccharomyces cerevisiae

<400> 617

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gatcgttctg ggagagtatt tacgttaaaa aataggaatc aattaagcat aatcatgccg 120

ttttgtgtgc tacatatctg tttcccacta tataaagtca cgttagaatg caatttatct 180

aatttactac cccatttttag cgtcagtgga ttggtaaatc cctttgctag caaggtactg 240

tcagaatatt tctccttcct ttcaaataat tgcaccaata tcttgccaat acttcacttg 300

agattgttct acaatatccg ctgtcttgga aagcaatttt ga 342

<210> 618
<211> 363
<212> DNA
<213> Saccharomyces cerevisiae

<400> 618

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tttgaaattg gttacttaga atatttctac tacatttcga taacaaatat aactattttg 120

aatttaaaag ttgagtatcc aaaaatttta gaaatacata caattacttc ccaattactt 180

cccaaatatt ctccccccctg gtttgatatc ataaaagcac cttatggcaa caagattccc 240

gggatagtaa tgctatttaa atgtatatct atttctcgaa tacttgtatc tttactccac 300

taccctatg caagaagata cgcgatagtt tttgttcctt cctcttccta ctctgttaat 360

taa 363

<210> 619
<211> 462
<212> DNA
<213> Saccharomyces cerevisiae

<400> 619

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cccacaccca caccacaccc acacccacac acaccacacc cacacaccac acccacaccc 180

acaccacacc acacccacac accacacacc accctatcta acctgtctct taacctaccc 240

tcacattacc ctacctcccc actcgttacc ctgccccact caaccatacc actcccaacc 300

accatccatc tctctactta ctactaccat ccaccgccca tcataaccgt taccctccaa 360

ttacccatat ccaactccac taccattacc ctgctattac cctaccatcc accatgtcct 420

actcactgta ctgttgttct accctccata ttgaaacgtt aa 462

<210> 620
<211> 1764
<212> DNA

<213> Saccharomyces cerevisiae

<400> 620

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aggaacaatt catcaagcgc taaccaaagt gcgtcgaaca aggaattaga acaagttttt 120

gaacagatca atgctatagt tgaaaaccac aataacaaat taaccactgc ctttgataag 180

atatcatatc gcgttgctca caagattaca cacttggtgg aaagccattc tttagtattc 240

aactacgcca ctttagttct catcgcaagt gctttggtcg ttattggctc atttacgtct 300

atttcttcta ttccatttac agctctacct cctacgagag aacactcatt gtttgatcct 360

acagattttg atgtggacca cgactgtcat gttatctacc gcgagaatga cgaagataaa 420

aagaaaaaga agaaaagcaa gaggtttttc gatatgatgg atgaaaaaca tgcgattata 480

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ctaaactggc taaaatatgt ggtgaaaatt ttgaatttta atataacact gctaaatatc 600

ccagctggca catttgtcta ctcctacttt ctcaactcac ttttcagaaa cctatcacat 660

ttagcttctt ggaatcccct ggttgtttta ccaaggtatc gtgtaacaat agctgatgat 720

aacgaagacc tgaacaagat aggcgggttt gttaccaatt tgaattacaa agatggattg 780

accaactcag ttgttcacaa gaaaacattg gatgagattg aaaaagatca ttggatgaag 840

catttttaca gaagagaatt agttgaaccg aaggatatta aatcgaagag gcagatcagc 900

aacatgtatt tgaatagcgc attaattgtt tcgttcgttc tgtccatcgt ttctaccgta 960

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gctctatttt tttacgacat ttgctttgtc tttggtaccg atgtaatggt tacagtagct 1140

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tacattgttc cttccttgtt gattagtact attttggcag cttgctggaa caaggatttt 1500

aagcagtttt ggaattttca gtatgatacg attgaagtgg ataaaagttt aaaaaaagcg 1560

atagaaaaaa aggagaactc tataacttat tcgaccttca tcctatcaga atactataat 1620

gatgccgaca agtatgcctt gcttggtgat gatgtaaacg aaaattttga cgatgatgaa 1680

gaattcgtgc aagaggaaga tctcagtgac agctctgagg aagagctttc tgaagaagat 1740

ctcttggatg acgaatcttc ttga 1764

<210> 621
<211> 1929
<212> DNA
<213> Saccharomyces cerevisiae

<400> 621

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ttagacacct ccggcaactc accagccaat gaacacacag ctaccacaat tacacagaat 180

cacagcgtgg tggcctcaaa cggagacgtc gcattcatcc caggaactgc taccgaaggc 240

aatacagaga ttgtaactga agaagtgatt gagaccgatg ataacatgtt caagacccat 300

gtgaagactt taagctccaa agagaaggca cggtataggc aagggtcctc taactttata 360

tcgtatttcg atgatatgtc atttgaacac aggcccagta tattagatgg gtcagttaac 420

gagcccttca agaccaaatt cgtgggacct actttagaaa aggagatcag aagaagggag 480

aaagagctaa tggccatgcg caaaaattta caccaccgca agtcctcccc agatgctgtc 540

gactcagtag ggaaaaatga tggcgccgcc ccaactactg ttccaactgc cgccacctca 600

gaaacggtgg tcaccgttga aaccaccata atttcatcca atttctccgg gttgtacgtg 660

gcgttttgga tggctattgc atttggtgct gtcaaggctt taatagacta ttattaccag 720

cataatggta gcttcaagga ttcggagatc ttgaaattta tgactacgaa tttgttcact 780

gtggcatccg tagatctttt gatgtatttg agcacttatt ttgtcgttgg aatacaatac 840

ttatgcaagt ggggggtctt gaaatggggc actaccggct ggatcttcac ctcaatttac 900

gagtttttgt ttgttatctt ctacatgtat ttaacagaaa acatcctaaa actacactgg 960

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cttgccaaat acaaggattc tataaatgat ccaaaagtta ttggtgctct tgagaaaagc 1140

tgtgagtttt gtagttttga attgagctct cagtctttaa gcgaccaaac tcaaaaattc 1200

cccaacaata tcagtgcaaa aagctttttt tggttcacca tgtttccaac cctaatttac 1260

caaattgaat atccaagaac taaggaaatc agatggagct acgtattaga aaagatctgc 1320

gccatcttcg gtaccatttt cttaatgatg atagatgctc aaatcttgat gtatcctgta 1380

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aaatgggttg gattgctcgt tgatatcgtc ccagggttta tcgtgatgta catcttggac 1500

ttctatttga tttgggatgc cattttgaac tgtgtggctg aattgacaag atttggcgac 1560

agatatttct acggtgactg gtggaattgt gttagttggg cagacttcag tagaatttgg 1620

aacatcccag tgcataagtt tttgttaaga catgtttacc atagttcaat gagttcattc 1680

aaattgaaca agagtcaagc aactttgatg acctttttct taagttccgt cgttcatgaa 1740

ttagcaatgt acgttatctt caagaaattg aggttttact tgttcttctt ccaaatgctg 1800

caaatgccat tagtagcttt aacaaatact aaattcatga ggaacagaac cataatcgga 1860

aatgttattt tctggctcgg tatctgcatg ggaccaagtg tcatgtgtac gttgtacttg 1920

acattctaa 1929

<210> 622
<211> 358
<212> PRT
<213> Glycine max

<400> 622

Met Thr Met Leu Gln Lys Met Ala Glu Leu Met Glu Tyr Ser Tyr Leu
1 5 10 15

Leu Asp Met Ala Asp Lys Thr Glu Asp Pro Tyr Met Arg Leu Val Tyr
20 25 30

Ala Ser Ser Phe Phe Ile Ser Val Tyr Tyr Ala Tyr Gln Arg Thr Trp
35 40 45

Lys Pro Phe Asn Pro Ile Leu Gly Glu Thr Tyr Glu Met Val Asn His
50 55 60

Gly Gly Ile Thr Phe Ile Ser Glu Gln Val Ser His His Pro Pro Met
65 70 75 80

Ser Ala Gly His Ala Glu Thr Glu His Pne Thr Tyr Asp Val Thr Ser

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                85                  90                  95

Lys Leu Lys Thr Lys Phe Leu Gly Asn Ser Val Asp Val Tyr Pro Val
            100                 105                 110

Gly Arg Thr Arg Val Thr Leu Lys Arg Asp Gly Val Val Leu Asp Leu
        115                 120                 125

Val Pro Pro Pro Thr Lys Val Ser Asn Leu Ile Phe Gly Arg Thr Trp
    130                 135                 140

Ile Asp Ser Pro Gly Glu Met Ile Leu Thr Asn Leu Thr Thr Gly Asp
145                 150                 155                 160

Lys Val Val Leu Tyr Phe Gln Pro Cys Gly Trp Phe Gly Tyr Glu Val
                165                 170                 175

Asp Gly Tyr Val Tyr Asn Ser Ala Asp Glu Pro Lys Ile Leu Met Thr
            180                 185                 190

Gly Lys Trp Asn Glu Ala Met Asn Tyr Gln Val Cys Asp Ser Glu Gly
        195                 200                 205

Glu Pro Leu Pro Gly Thr Glu Leu Lys Glu Ile Trp Arg Val Ala Asp
    210                 215                 220

Thr Pro Lys Lys Asp Lys Phe Gln Tyr Thr His Phe Ala His Lys Ile
225                 230                 235                 240

Asn Ser Phe Asp Thr Ala Pro Lys Lys Leu Leu Ala Ser Asp Ser Arg
                245                 250                 255

Leu Arg Pro Asp Arg Met Ala Leu Glu Lys Gly Asp Leu Ser Thr Ser
            260                 265                 270

Gly Tyr Glu Lys Ser Ser Leu Glu Glu Arg Gln Arg Ala Glu Lys Arg
        275                 280                 285

Asn Arg Glu Ala Lys Gly His Lys Phe Thr Pro Arg Trp Phe Asp Leu
    290                 295                 300

Thr Asp Glu Val Thr Pro Thr Pro Trp Gly Asp Leu Glu Val Tyr Gln
305                 310                 315                 320

Tyr Asn Gly Lys Tyr Thr Gln His Cys Ala Ala Val Asp Ser Ser Glu
                325                 330                 335

Cys Ile Glu Val Pro Asp Ile Arg Pro Glu Phe Asn Pro Trp Gln Tyr
            340                 345                 350

Asp Asn Leu Asp Ala Glu
        355
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<210> 623
<211> 300
<212> PRT
<213> Glycine max

<400> 623

Met Cys Asn Asn Gly Gln Ser Pro Leu Asp Arg Phe Ile Ser Val Val
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Ala Trp Cys Ile Ser Thr Thr Arg Pro Val Thr Phe Gly Val Ala Pro
20 25 30

Tyr Asn Pro Ile Leu Gly Glu Thr His His Val Ser Arg Gly Asn Leu
35 40 45

Asn Val Leu Leu Glu Gln Ile Ser His His Pro Pro Val Thr Ala Leu
50 55 60

His Ala Thr Asp Glu Lys Glu Asn Ile Glu Met Leu Trp Cys Gln Arg
65 70 75 80

Pro Asp Pro Lys Phe Asn Gly Thr Ser Val Glu Ala Lys Val His Gly
85 90 95

Ile Arg Gln Leu Lys Leu Leu Asn His Gly Glu Thr Tyr Glu Met Asn
100 105 110

Cys Pro Arg Leu Leu Leu Arg Ile Leu Pro Val Pro Gly Ala Asp Trp
115 120 125

Ala Gly Thr Val Asn Ile Arg Cys Leu Glu Thr Gly Leu Val Ala Glu
130 135 140

Leu Ser Tyr Arg Ser Ser Ser Phe Leu Gly Ile Gly Gly Asn His Arg
145 150 155 160

Val Ile Lys Gly Lys Ile Leu Asp Ser Ser Ser Leu Lys Val Leu Tyr
165 170 175

Glu Val Asp Gly His Trp Asp Arg Thr Val Lys Val Lys Asp Thr Asn
180 185 190

Asn Gly Lys Val Arg Val Ile Tyr Asp Ala Lys Glu Val Met Ser Gly
195 200 205

Leu Glu Thr Pro Ile Leu Lys Asp Ile Glu Gly Val Trp Gln Thr Glu
210 215 220

Ser Ala His Val Trp Gly Glu Leu Asn Gln Ala Ile Val Ser Lys Asp
225 230 235 240

Trp Glu Lys Ala Arg Glu Ala Lys Leu Lys Val Glu Glu Arg Gln Arg
245 250 255

```
Glu Leu Val Arg Glu Arg Glu Ser Lys Gly Glu Thr Trp Ile Ser Lys
            260                 265                 270

His Phe Val Val Ser Asn Asn Lys Glu Gly Trp Gln Cys Ser Pro Ile
        275                 280                 285

His Lys Ser Val Pro Ala Ala Pro Ile Thr Ala Leu
    290                 295                 300


<210>       624
<211>       355
<212>       PRT
<213>       Glycine max

<400>       624

Met Ala Glu Leu Met Glu Tyr Ser Tyr Leu Leu Asp Met Ala Asp Lys
1               5                   10                  15

Thr Glu Asp Pro Tyr Met Arg Leu Val Tyr Ala Ser Ser Phe Phe Ile
            20                  25                  30

Ser Val Tyr Tyr Ala Tyr Gln Arg Thr Trp Lys Pro Phe Asn Pro Ile
        35                  40                  45

Leu Gly Glu Thr Tyr Glu Met Val Asn His Gly Gly Ile Thr Phe Ile
    50                  55                  60

Ser Glu Gln Val Ser His His Pro Pro Met Ser Ala Gly His Ala Glu
65                  70                  75                  80

Thr Glu His Phe Thr Tyr Asp Val Thr Ser Lys Leu Lys Thr Lys Phe
                85                  90                  95

Leu Gly Asn Ser Val Asp Val Tyr Pro Val Gly Arg Thr Arg Val Thr
            100                 105                 110

Leu Lys Arg Asp Gly Val Val Leu Asp Leu Val Pro Pro Pro Thr Lys
        115                 120                 125

Val Ser Asn Leu Ile Phe Gly Arg Thr Trp Ile Asp Ser Pro Gly Glu
    130                 135                 140

Met Ile Leu Thr Asn Leu Thr Thr Gly Asp Lys Val Val Leu Tyr Phe
145                 150                 155                 160

Gln Pro Cys Gly Trp Phe Gly Ala Gly Arg Tyr Glu Val Asp Gly Tyr
                165                 170                 175

Val Tyr Asn Ser Ala Asp Glu Pro Lys Ile Leu Met Thr Gly Lys Trp
            180                 185                 190
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Asn Glu Ala Met Asn Tyr Gln Val Cys Asp Ser Glu Gly Glu Pro Leu
195 200 205

Pro Gly Thr Glu Leu Lys Glu Ile Trp Arg Val Ala Asp Thr Pro Lys
210 215 220

Lys Asp Lys Phe Gln Tyr Thr His Phe Ala His Lys Ile Asn Ser Phe
225 230 235 240

Asp Thr Ala Pro Lys Lys Leu Leu Ala Ser Asp Ser Arg Leu Arg Pro
245 250 255

Asp Arg Met Ala Leu Glu Lys Gly Asp Leu Ser Thr Ser Gly Tyr Glu
260 265 270

Lys Ser Ser Leu Glu Glu Arg Gln Arg Ala Glu Lys Arg Asn Arg Glu
275 280 285

Ala Lys Gly His Lys Phe Thr Pro Arg Trp Phe Asp Leu Thr Asp Glu
290 295 300

Val Thr Pro Thr Pro Trp Gly Asp Leu Glu Val Tyr Gln Tyr Asn Gly
305 310 315 320

Lys Tyr Thr Gln His Cys Ala Ala Val Asp Ser Ser Glu Cys Ile Glu
325 330 335

Val Pro Asp Ile Arg Pro Glu Phe Asn Pro Trp Gln Tyr Asp Asn Leu
340 345 350

Asp Ala Glu
355

<210> 625
<211> 414
<212> PRT
<213> Zea mays

<400> 625

Met Ala Thr Lys Glu Glu Ala Ser Ala Val Pro Ala Ala Ser Lys Thr
1 5 10 15

Ser Trp Ser Ser Phe Leu Lys Ser Ile Ala Ser Phe Asn Gly Asp Leu
20 25 30

Ser Ser Leu Thr Ala Pro Pro Phe Ile Leu Ser Thr Thr Ser Leu Thr
35 40 45

Glu Tyr Ser Ala Tyr Trp Cys Glu His Pro Ala Leu Phe Val Ala Pro
50 55 60

Ala Arg Glu Pro Asp Pro Ala Lys Arg Ala Leu Leu Val Leu Lys Trp

65 70 75 80

Phe Leu Ser Thr Leu His Gln Gln Tyr Cys Ser Arg Ser Glu Lys Leu
85 90 95

Gly Ser Glu Lys Lys Pro Leu Asn Pro Phe Leu Gly Glu Leu Phe Leu
100 105 110

Gly Lys Trp Ile Glu Asp Glu Asp Val Gly Glu Thr Arg Leu Ile Ser
115 120 125

Glu Gln Val Ser His His Pro Pro Ala Thr Ala Tyr Ser Ile Val Asn
130 135 140

Glu Lys His Gly Val Glu Leu Gln Gly Tyr Asn Ala Gln Lys Ala Ser
145 150 155 160

Phe Ser Ser Thr Ile Gln Val Lys Gln Leu Gly His Ala Tyr Leu Ser
165 170 175

Leu Thr Pro Pro Gly Lys Asp Ala Asn Asn Glu Asp Asp Arg Glu His
180 185 190

Tyr Leu Ile Thr Leu Pro Asn Leu His Ile Glu Ser Leu Ile Tyr Gly
195 200 205

Thr Pro Phe Val Glu Leu Glu Lys Ser Cys Lys Ile Ala Ser Ser Thr
210 215 220

Gly Tyr Ile Ser Lys Ile Asp Phe Ser Gly Lys Gly Trp Leu Ser Gly
225 230 235 240

Lys Lys Asn Thr Phe Ser Ala Val Leu Tyr Lys Glu Ser Asp Gly Glu
245 250 255

Lys Asn Pro Leu Tyr Thr Ala Asp Gly Gln Trp Ser Ser Ser Phe Thr
260 265 270

Ile Arg Asp Ala Arg Ala Lys Lys Asp Ile Glu Thr Phe Thr Ile Ser
275 280 285

Asn Leu Lys Thr Thr Pro Leu Thr Val Ala Pro Leu Asp Glu Gln Asp
290 295 300

Glu Trp Glu Thr Arg Arg Ala Trp Arg Asp Val Ala Ala Ala Ile Glu
305 310 315 320

Arg Gly Asp Met Glu Ala Thr Ser Asn Ala Lys Thr Lys Ile Glu Val
325 330 335

Ala Gln Arg Glu Leu Arg Lys Lys Glu Lys Glu Gln Gly Glu Glu Trp
340 345 350

Glu Arg Arg Phe Phe Lys Arg Val Asn Glu Lys Asp Glu Pro Thr Phe

355 360 365

Met Arg Leu Ala Ala Met Leu Asp Leu Thr Gln Gly Ile Glu Ser Asp
370 375 380

Arg Thr Gly Gly Val Trp Arg Phe Asp Pro Ser Arg Ala Val Asp Ala
385 390 395 400

Asn Pro Pro Tyr His Lys Val Gly Gly Glu Gly Leu Gly Leu
405 410

<210> 626
<211> 434
<212> PRT
<213> Saccharomyces cerevisiae

<400> 626

Met Ser Gln His Ala Ser Ser Ser Ser Trp Thr Ser Phe Leu Lys Ser
1 5 10 15

Ile Ser Ser Phe Asn Gly Asp Leu Ser Ser Leu Ser Ala Pro Pro Phe
20 25 30

Ile Leu Ser Pro Thr Ser Leu Thr Glu Phe Ser Gln Tyr Trp Ala Glu
35 40 45

His Pro Ala Leu Phe Leu Glu Pro Ser Leu Ile Asp Gly Glu Asn Tyr
50 55 60

Lys Asp His Cys Pro Phe Asp Pro Asn Val Glu Ser Lys Glu Val Ala
65 70 75 80

Gln Met Leu Ala Val Val Arg Trp Phe Ile Ser Thr Leu Arg Ser Gln
85 90 95

Tyr Cys Ser Arg Ser Glu Ser Met Gly Ser Glu Lys Lys Pro Leu Asn
100 105 110

Pro Phe Leu Gly Glu Val Phe Val Gly Lys Trp Lys Asn Asp Glu His
115 120 125

Pro Glu Phe Gly Glu Thr Val Leu Leu Ser Glu Gln Val Ser His His
130 135 140

Pro Pro Met Thr Ala Phe Ser Ile Phe Asn Glu Lys Asn Asp Val Ser
145 150 155 160

Val Gln Gly Tyr Asn Gln Ile Lys Thr Gly Phe Thr Lys Thr Leu Thr
165 170 175

Leu Thr Val Lys Pro Tyr Gly His Val Ile Leu Lys Ile Lys Asp Glu
180 185 190

Thr Tyr Leu Ile Thr Thr Pro Pro Leu His Ile Glu Gly Ile Leu Val
195 200 205

Ala Ser Pro Phe Val Glu Leu Gly Gly Arg Ser Phe Ile Gln Ser Ser
210 215 220

Asn Gly Met Leu Cys Val Ile Glu Phe Ser Gly Arg Gly Tyr Phe Thr
225 230 235 240

Gly Lys Lys Asn Ser Phe Lys Ala Arg Ile Tyr Arg Ser Pro Gln Glu
245 250 255

His Ser His Lys Glu Asn Ala Leu Tyr Leu Ile Ser Gly Gln Trp Ser
260 265 270

Gly Val Ser Thr Ile Ile Lys Lys Asp Ser Gln Val Ser His Gln Phe
275 280 285

Tyr Asp Ser Ser Glu Thr Pro Thr Glu His Leu Leu Val Lys Pro Ile
290 295 300

Glu Glu Gln His Pro Leu Glu Ser Arg Arg Ala Trp Lys Asp Val Ala
305 310 315 320

Glu Ala Ile Arg Gln Gly Asn Ile Ser Met Ile Lys Lys Thr Lys Glu
325 330 335

Glu Leu Glu Asn Lys Gln Arg Ala Leu Arg Glu Gln Glu Arg Val Lys
340 345 350

Gly Val Glu Trp Gln Arg Arg Trp Phe Lys Gln Val Asp Tyr Met Asn
355 360 365

Glu Asn Thr Ser Asn Asp Val Glu Lys Ala Ser Glu Asp Asp Ala Phe
370 375 380

Arg Lys Leu Ala Ser Lys Leu Gln Leu Ser Val Lys Asn Val Pro Ser
385 390 395 400

Gly Thr Leu Ile Gly Gly Lys Asp Asp Lys Lys Asp Val Ser Thr Ala
405 410 415

Leu His Trp Arg Phe Asp Lys Asn Leu Trp Met Arg Glu Asn Glu Ile
420 425 430

Thr Ile